

COMPUTER SCIENCE

PRACTICAL MANUAL



XI

STD

www.Padasalai.Net

INTEL CORE I7	16GB DDR3L	256GB SSD	NVIDIA GTX-860M
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HIGHER SECONDARY FIRST YEAR

2017 – 2018

NAME	:
CLASS	:
ROLL NO	:
SCHOOL	:

CONTENTS
SECTION - A
WINDOWS XP

Problem No	Problem Description	Page No.
1	Working with Windows Accessories	
2	Working with WordPad	
3	Creating and Renaming a File and a Folder	
4	Working with Win Keys	
5	Working with Windows Explorer	
LINUX		
6	Create and Remove Directory	
7	Display Directory Content	
8	Change and Reset Password	
9	Sorting Data in a File	
10	Display Date and Time in Different Formula	
HTML		
11	Display Your Name and School Address	
12	Display an Advertisement	
13	Class Time Table	
14	Ordered and Unordered Lists	
15	Display an Image and Link and URL	
SECTION - B - C PROGRAMMING		
1	Fibonacci Series	
2	Number of Vowels in a String	
3	Adam Numbers	
4	Conversion Binary to Decimal	
5	Perfect Numbers	
6	Palindrome	
7	Descending Order	
8	Sum of Diagonal Elements of a Matrix	
9	Transpose of a Matrix	
10	Storing and Printing Name in an Array	

WINDOWS XP

1. WORKING WITH WINDOWS ACCESSORIES

EXERCISE 1:

1. Write the steps to do the following.

- a) Change the background picture (Wall paper)
- b) Change the desktop shortcut to MS paint.
- c) Convert decimal number 23 to binary , octal and hexadecimal using calculator in Scientific mode.
- d) Start MS DOS application and try DIR command with options /W ,/P,/B and /L.

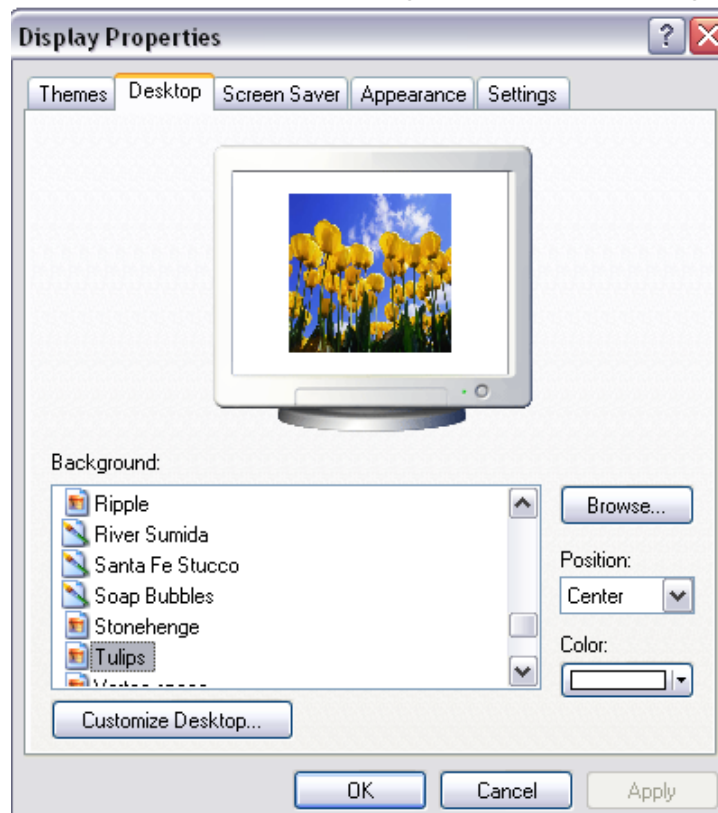
PROCEDURE:

a) Step :1 Right click any-where on the blank area of the desktop.

Step 2: Click on **Properties** option.

Step 3: Select **Desktop** tab in **Display properties** dialog box. On the **Background** list box, select your favourite background (Wall paper)

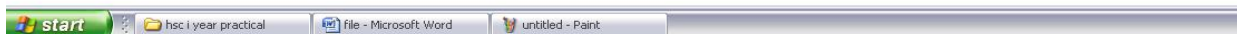
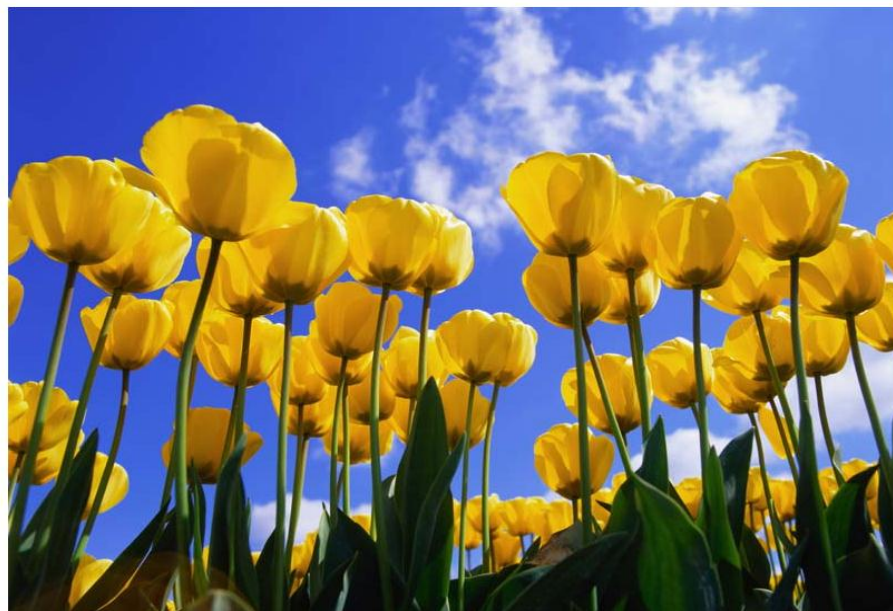
Step 4: Click on **Apply** button to change the current background and click **OK** button.





b) Step 1: Click on **Start** → **All Programs** → **Accessories** → **Paint** and right click.

Step 2: On the popup menu select **Send To** option and choose **Desktop(create Shortcut)**



c) Step 1: Click on **Start** → **All Programs** → **Accessories** → **Calculator**

Step 2: Select **Scientific** mode from **View** menu.

Step 3: Type the number **23** and choose **Bin** option . The binary equivalent **10111** will be displayed.

Step 4: Choose **Oct** option to convert the in Octal. The Octal equivalent **27** will be displayed.

Step 5: Choose **Hex** option to convert the number in Hexadecimal . The Hexadecimal equivalent will be displayed.



d) Step1: Click on **Start** → **All Programs** → **Accessories** → **Command Prompt**.

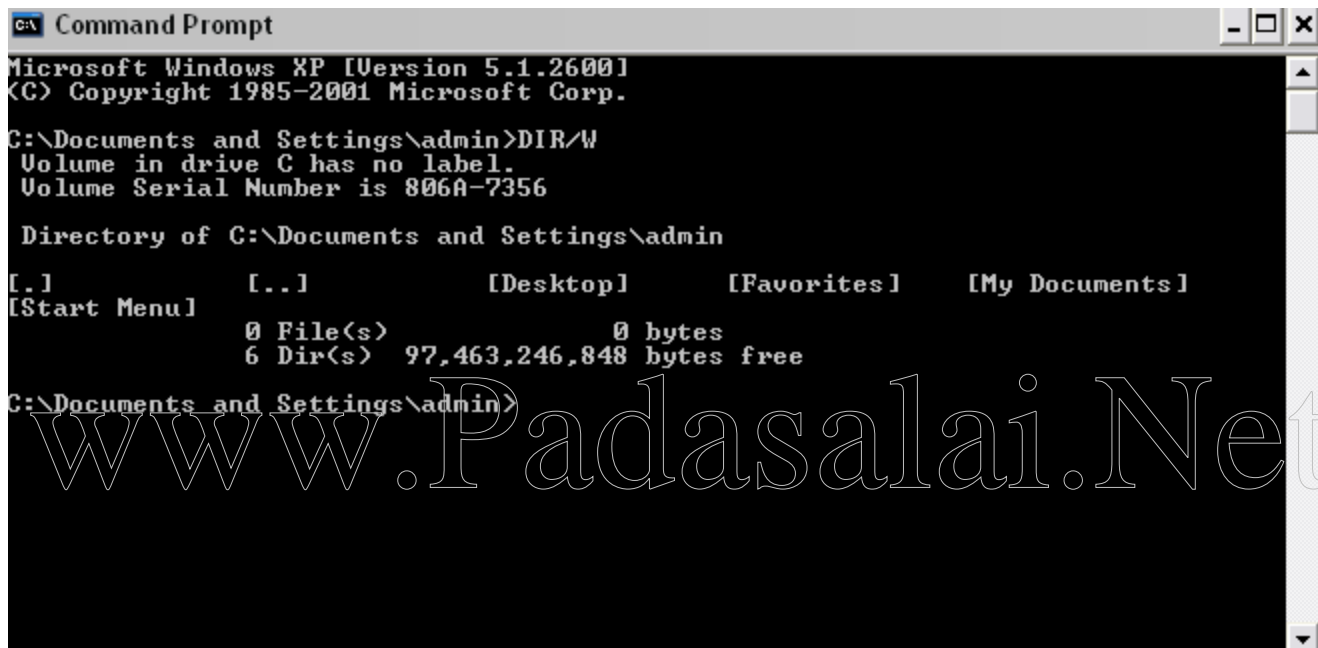
Step 2: Type the command **DIR/W** to display the files and folders in Width order.

Step 3: Type the command **DIR/P** to display the files and folders in Page wise order.

Step 4: Type the command **DIR/B** to display the summary information of files and folders.

Step 5: Type the command **DIR/L** to display the files and folders name in Lower case.

OUTPUT : 1



```
C:\ Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

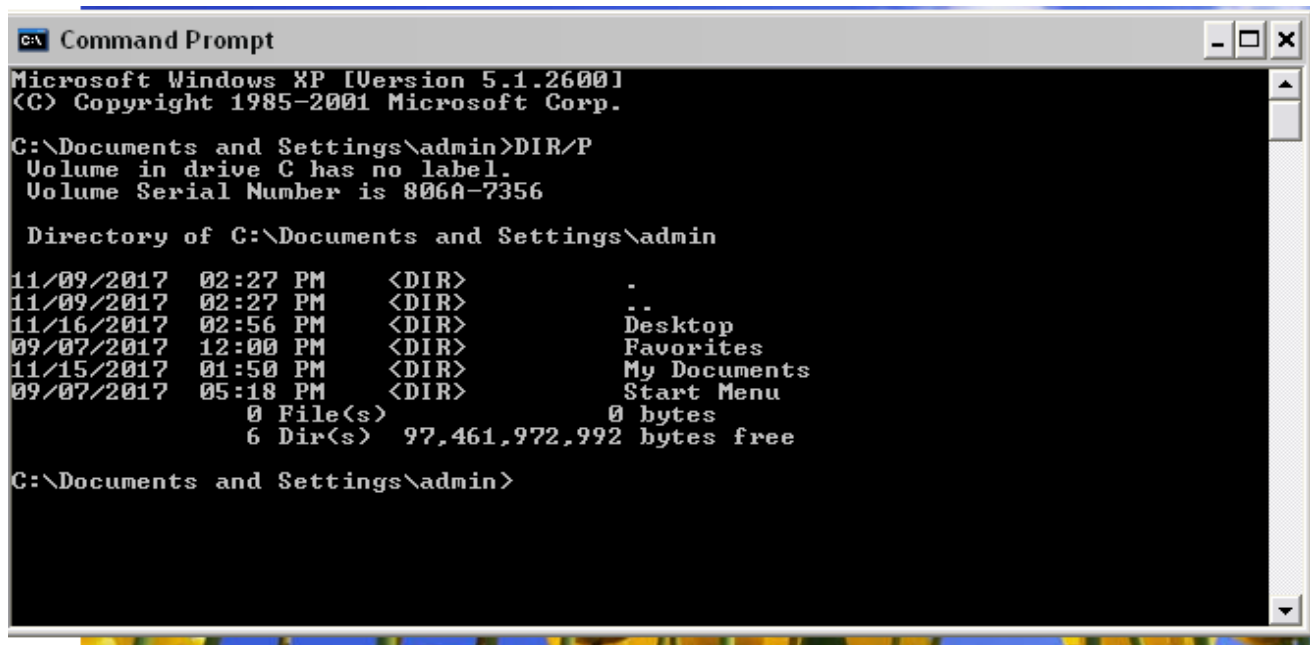
C:\Documents and Settings\admin>DIR/W
Volume in drive C has no label.
Volume Serial Number is 806A-7356

Directory of C:\Documents and Settings\admin

[.]          [..]          [Desktop]      [Favorites]    [My Documents]
[Start Menu]
              0 File(s)          0 bytes
              6 Dir(s)  97,463,246,848 bytes free

C:\Documents and Settings\admin>
```

OUTPUT: 2



```
C:\ Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\admin>DIR/P
Volume in drive C has no label.
Volume Serial Number is 806A-7356

Directory of C:\Documents and Settings\admin

11/09/2017  02:27 PM    <DIR>      -
11/09/2017  02:27 PM    <DIR>      ..
11/16/2017  02:56 PM    <DIR>      Desktop
09/07/2017  12:00 PM    <DIR>      Favorites
11/15/2017  01:50 PM    <DIR>      My Documents
09/07/2017  05:18 PM    <DIR>      Start Menu
              0 File(s)          0 bytes
              6 Dir(s)  97,461,972,992 bytes free

C:\Documents and Settings\admin>
```

OUTPUT: 3

```
C:\ Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\admin>DIR/B
Desktop
Favorites
My Documents
Start Menu

C:\Documents and Settings\admin>_
```

OUTPUT: 4

```
C:\ Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\admin>DIR/L
Volume in drive C has no label.
Volume Serial Number is 806A-7356

Directory of C:\Documents and Settings\admin

11/09/2017 02:27 PM <DIR>      .
11/09/2017 02:27 PM <DIR>      ..
11/16/2017 02:56 PM <DIR>      desktop
09/07/2017 12:00 PM <DIR>      favorites
11/15/2017 01:50 PM <DIR>      my documents
09/07/2017 05:18 PM <DIR>      start menu
                0 File(s)          0 bytes
                6 Dir(s)  97,460,477,952 bytes free

C:\Documents and Settings\admin>
```

2. WORKING WITH WORDPAD

EXERCISE :2

2. Write steps to do the following.

- Open MS Paint and draw a simple house and color it.
- Open WordPad, copy the picture from the paint.
- Type the following text below the picture.

“Starting multiple application is very simple. First start one application Appears on the screen in a window. At the same time a button with name of the application appears on the taskbar. Now start the second application”

- Align the typed text to left, right center using toolbar icons and keyboard shortcuts.

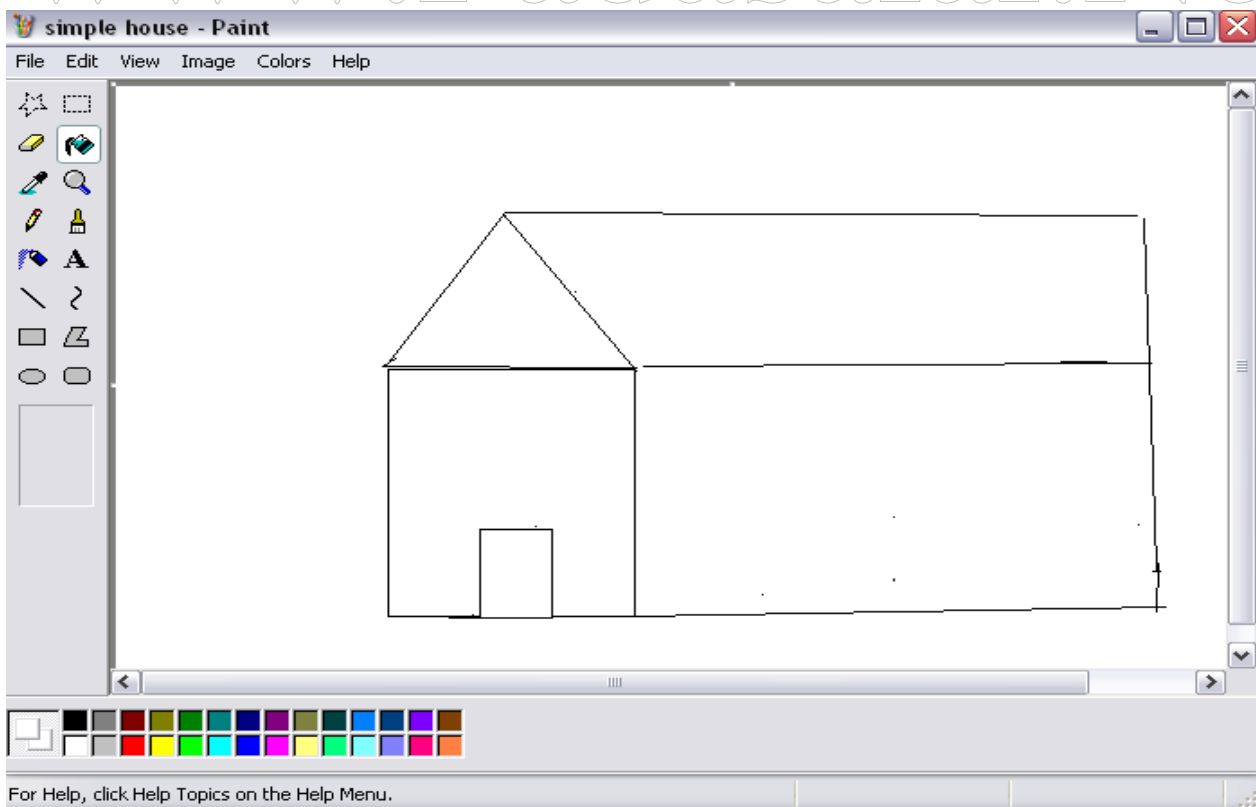
PROCEDURE:

- Step 1: Click on **Start** → **All Programs** → **Accessories** → **Paint**

Step 2: Use **Pencil or Line** tool to draw a house.

Step 3: Choose any colour from **Color Palette** and fill using **Fill with Color** tool.

Step 4: Save the file with any name.

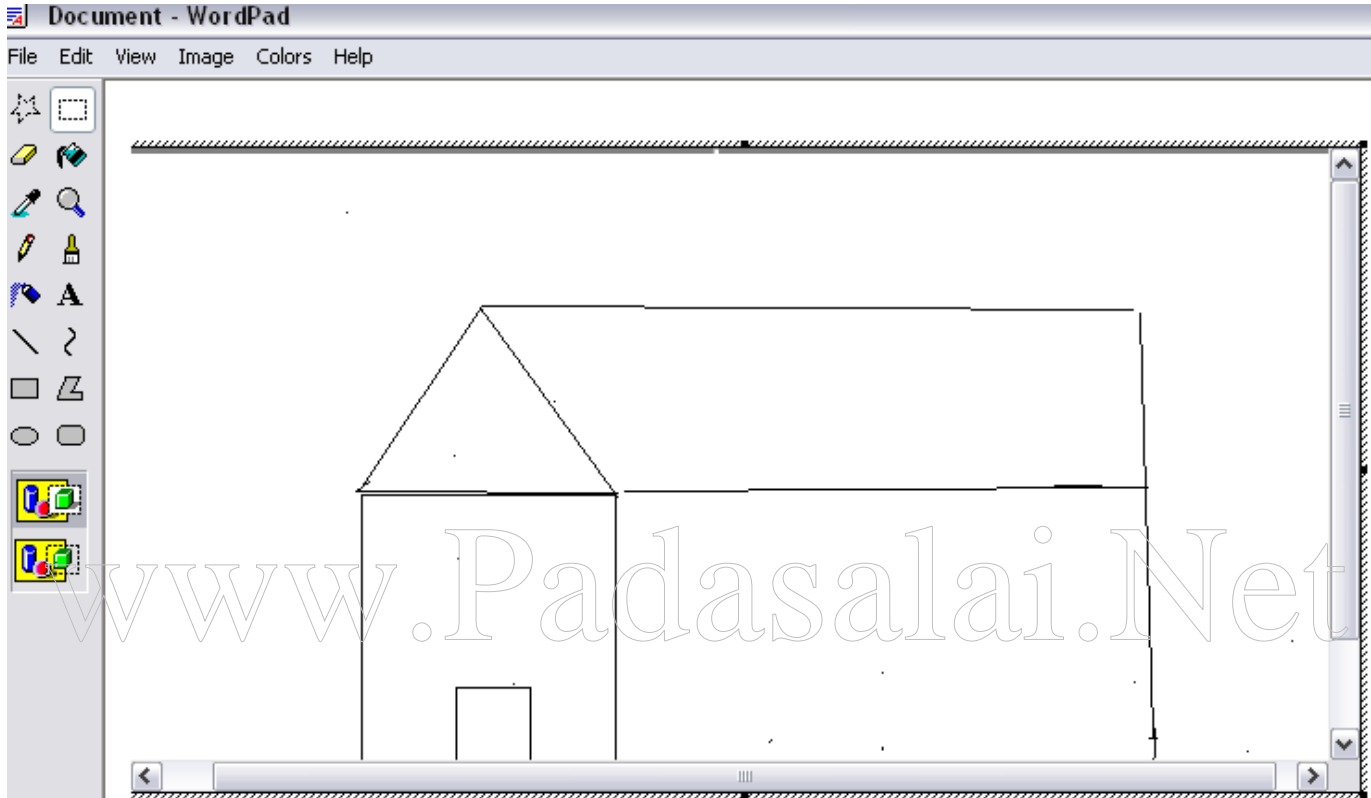


b) Step 1: Click on **Start** → **All Programs** → **Accessories** → **Wordpad**

Step 2: Click **Insert** menu and Select **Object** option **Insert Object** dialog box appears.

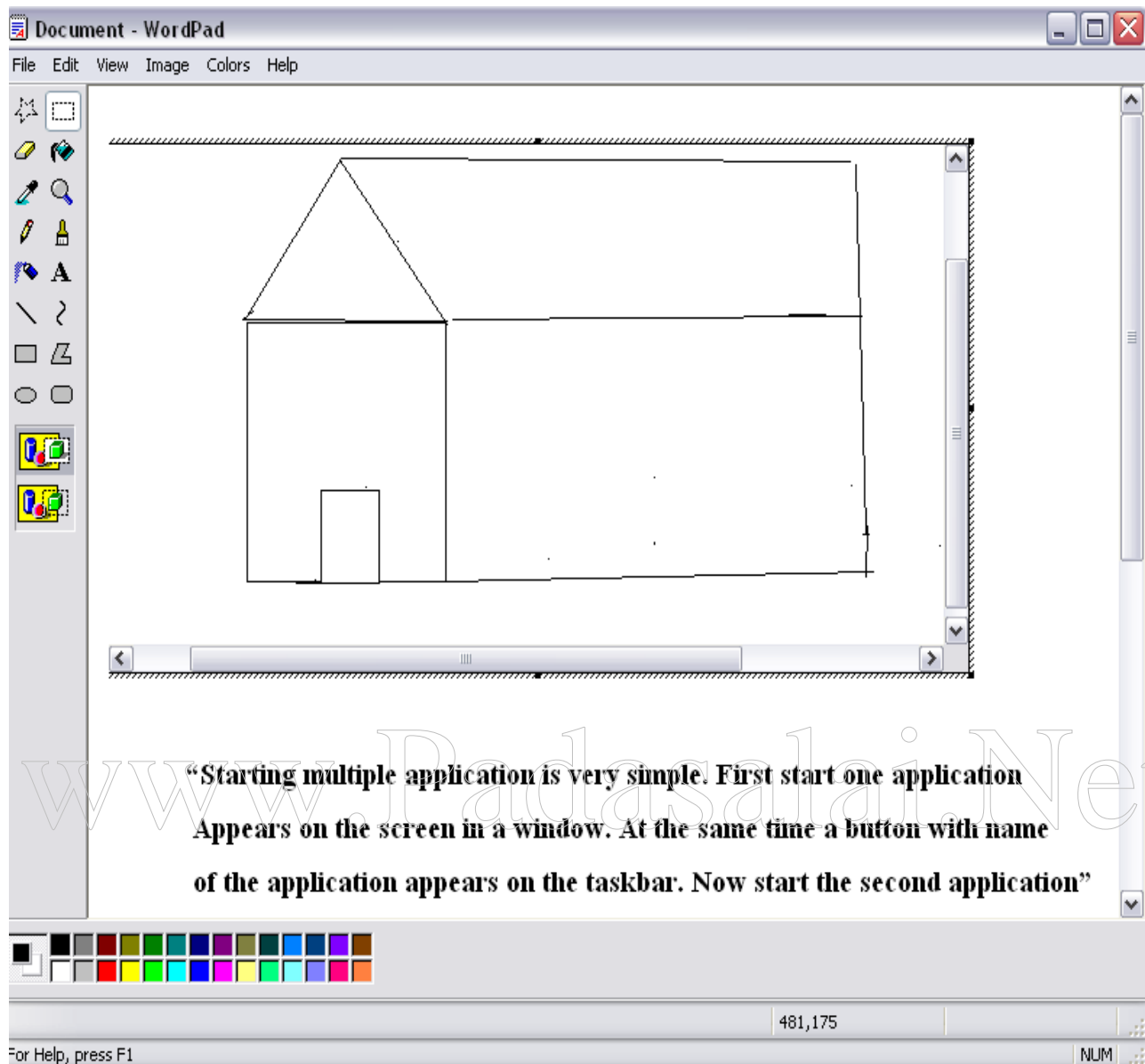
Step 3: Choose **Create From File** option and locate the file using Browse button.

Click **OK** button to copy the file in WordPad.



c) Step 1: Place the cursor below the picture and type the following text.

**“Starting multiple application is very simple. First start one application
Appears on the screen in a window. At the same time a button with name
of the application appears on the taskbar. Now start the second application”**



- d) Step 1: Select the text using Mouse or Keyboard.
- Step 2: Align the text to left by selecting **Align Left** icon from **Format bar** or press the keyboard shortcut **Ctrl+L**.
- Step 3: Align the text to right by selecting **Align Right** icon from **Format bar** or press the keyboard shortcut **Ctrl +R**.
- Step 4: Align the text to center by selecting **Center** icon from **Format bar** or press the keyboard shortcut **Ctrl + E**.

3. CREATING AND RENAMING A FILE AND FOLDER

EXERCISE :3

3. Write steps to do the following.

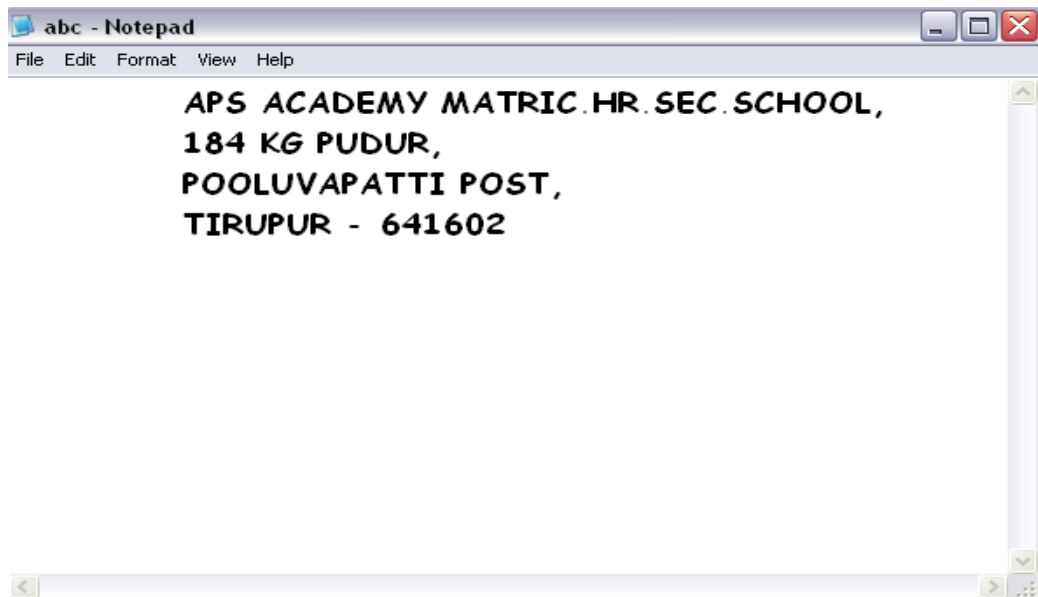
- a) Create a text file with your school name and address using Notepad with the file name “**abc.txt**”.
- b) Create a new folder using Windows Explorer and name the folder as “**folderabc**”
- c) Copy the text file abc.txt into the new folder folderabc.
- d) Rename the copies file as “**xyz.txt**” and folder as “**folderxyz**”

PROCEDURE:

- a) Step 1: Click on **Start** → **All Programs** → **Accessories** → **Notepad**

Step 2: Type your school name and address.

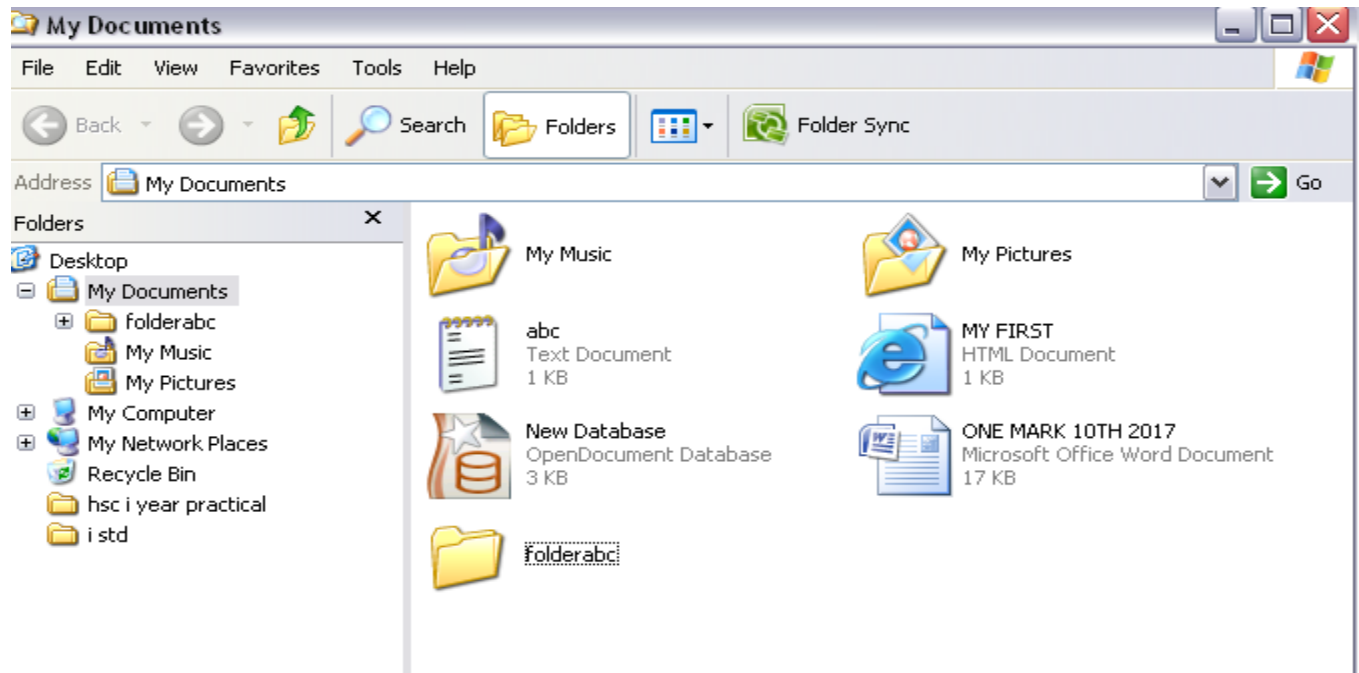
Step 3: Save the file with the name **abc.txt** by selecting the option **Save** from **File** menu.



- b) Step 1: Click on **Start** → **All Programs** → **Accessories** → **Windows Explorer** .

Step 2: Click on **File** → **New** → **Folder** option.

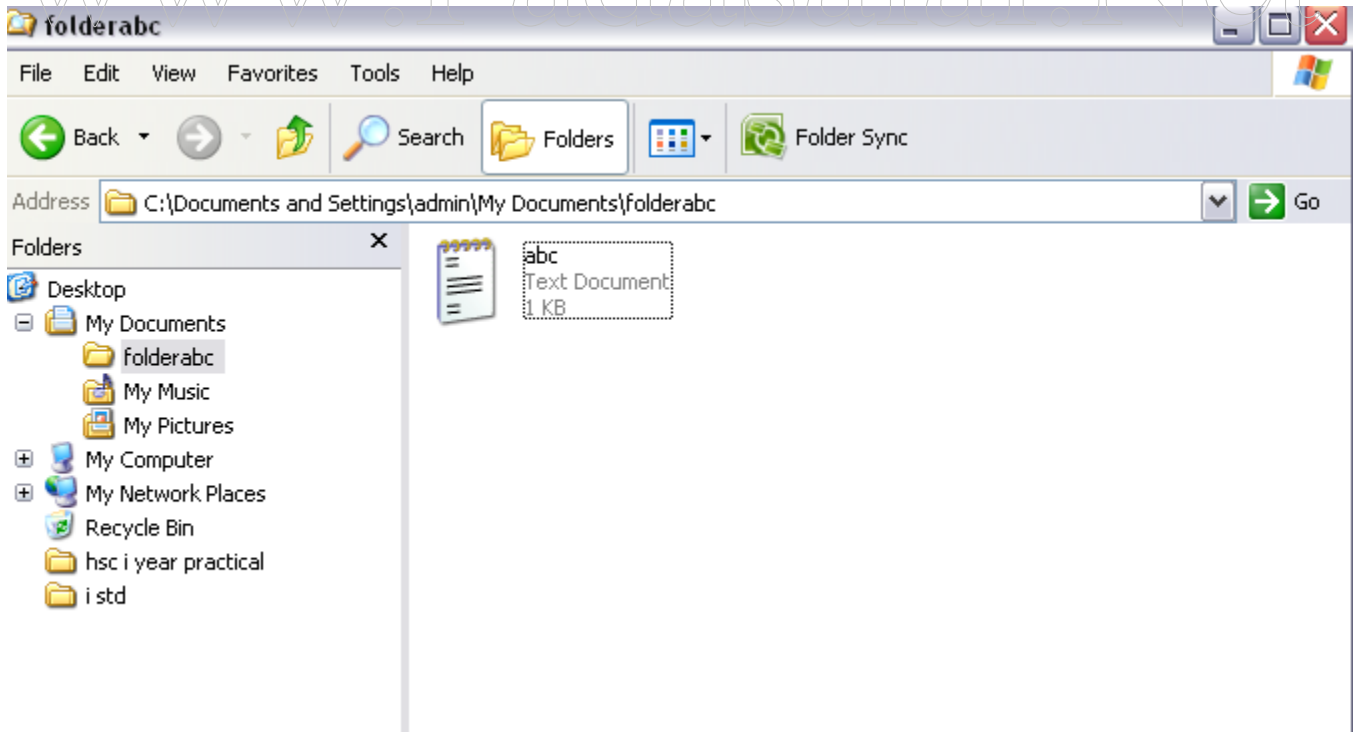
Step 3: Type the folder name **folderabc** and press Enter



c) Step 1: Locate **abc.txt** file and right click on the file name

Step 2: Choose the option **Copy**.

Step 3: Locate the folder **folderabc** and right click to select **Paste** option.

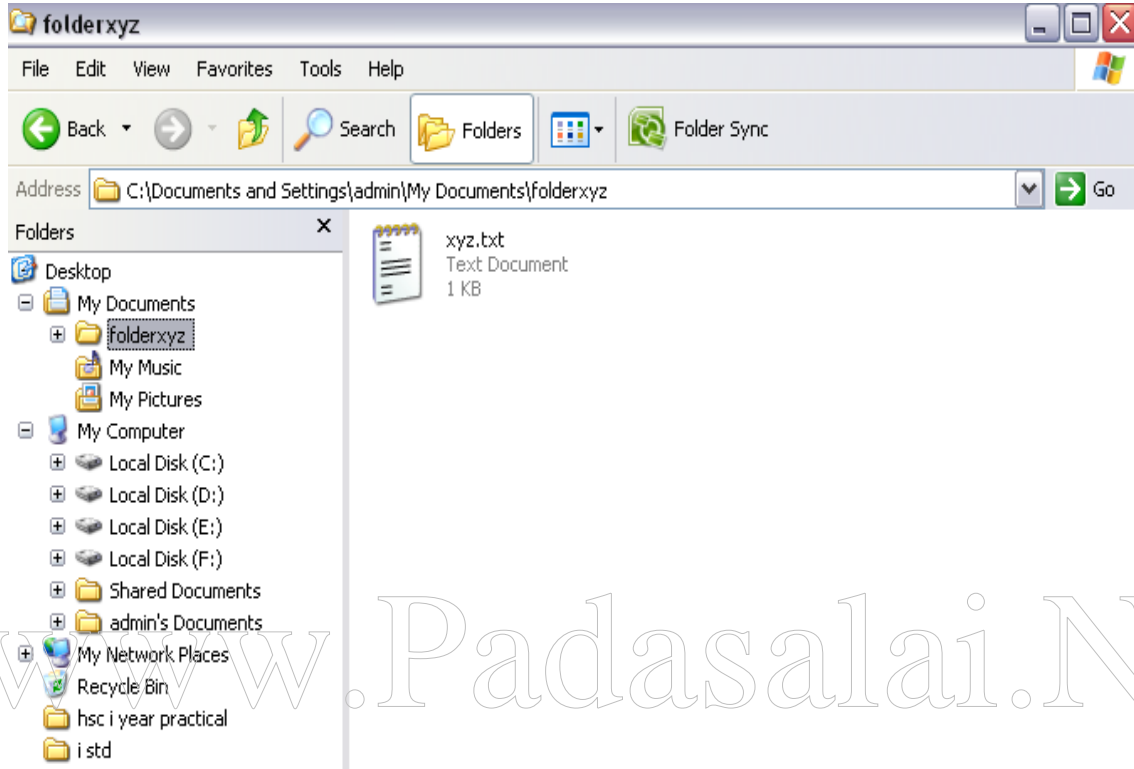


d) Step 1: Select the file **abc.txt** and right click the file name

Step 2: Choose **Rename** option and type **xyz.txt**.

Step 3: Select the folder **folderxyz** and right click the folder name.

Step 4: Choose **Rename** option and type **folderxyz**.



4. WORKING WITH WINKEYS

EXERCISE : 4

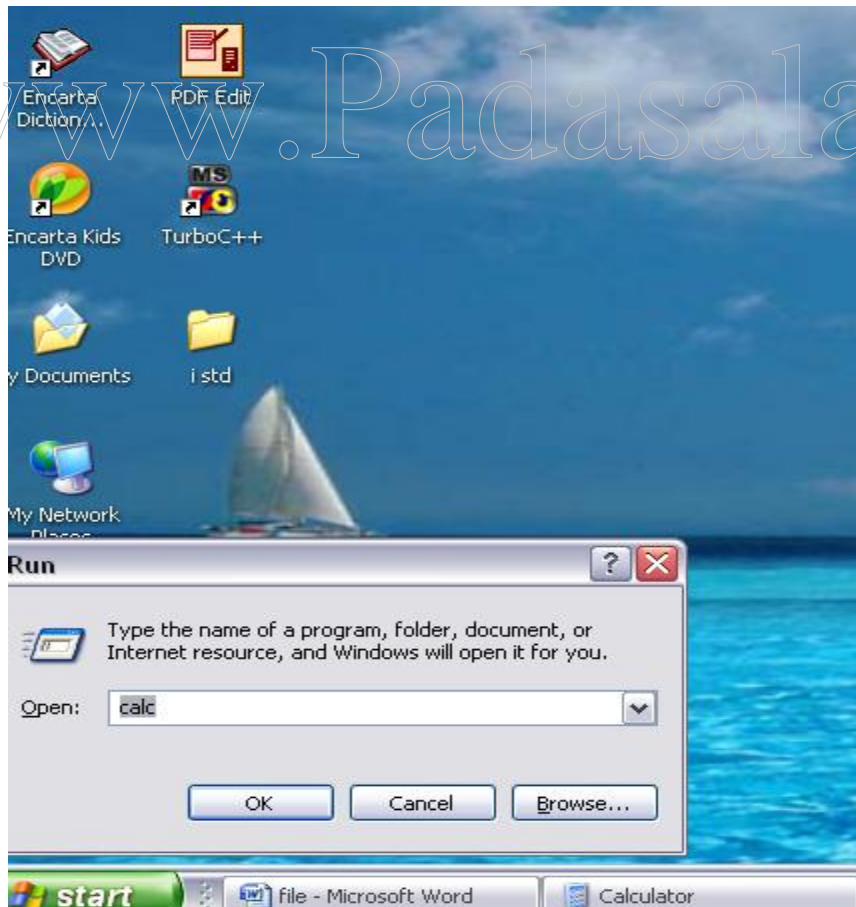
4. Write the steps do the following using only keyboard (without using mouse)

- a) Display Run dialog box and open calculator.
- b) Open Explorer Window showing My computer.
- c) Display system properties dialog box.
- d) Open Help and Support Center Window
- e) Close all the above opened windows.

PROCEDURE

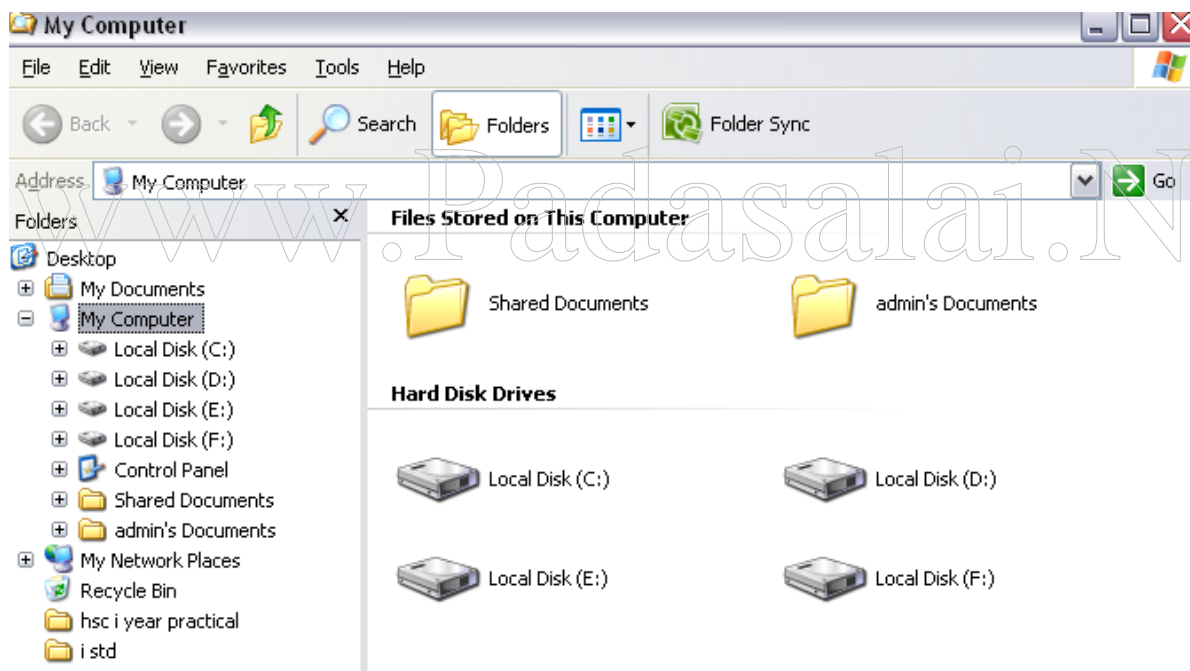
a) Step 1: Press **Winkey + R** key and type Calc

Step 2: Press Enter key to open calculator

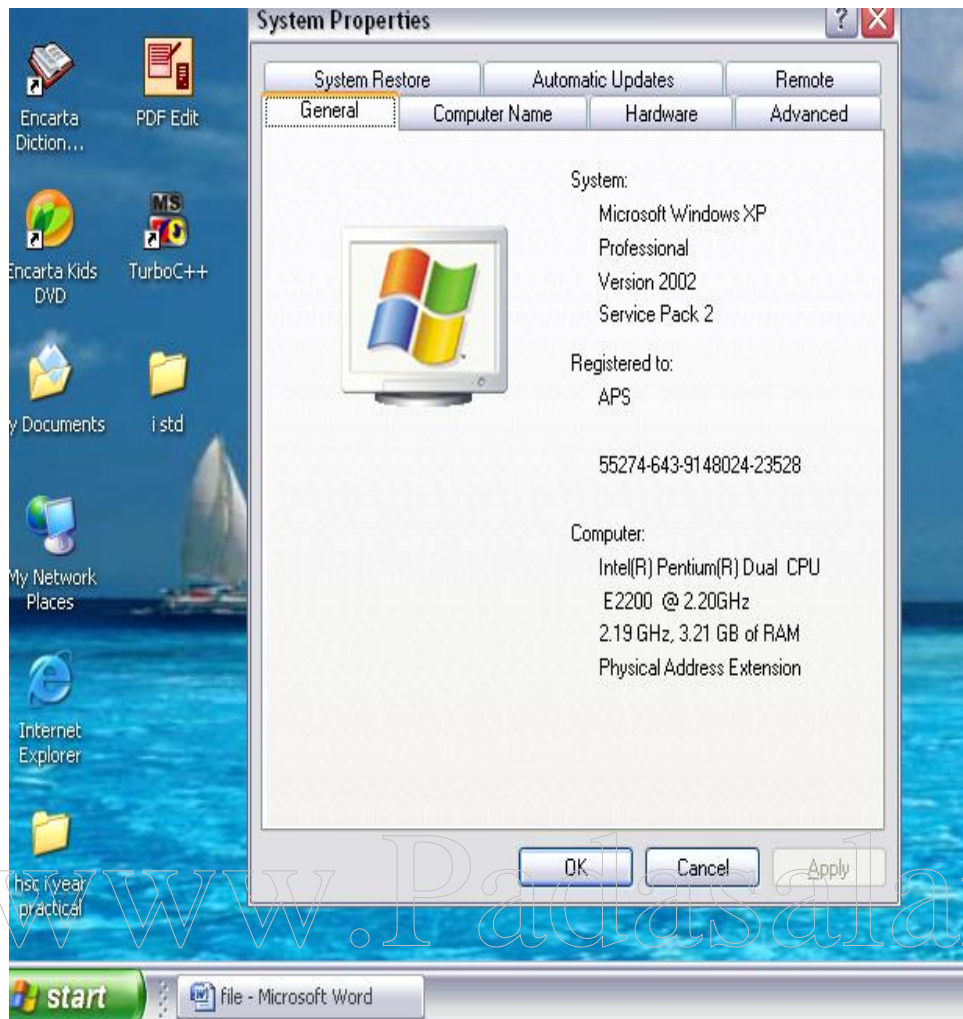




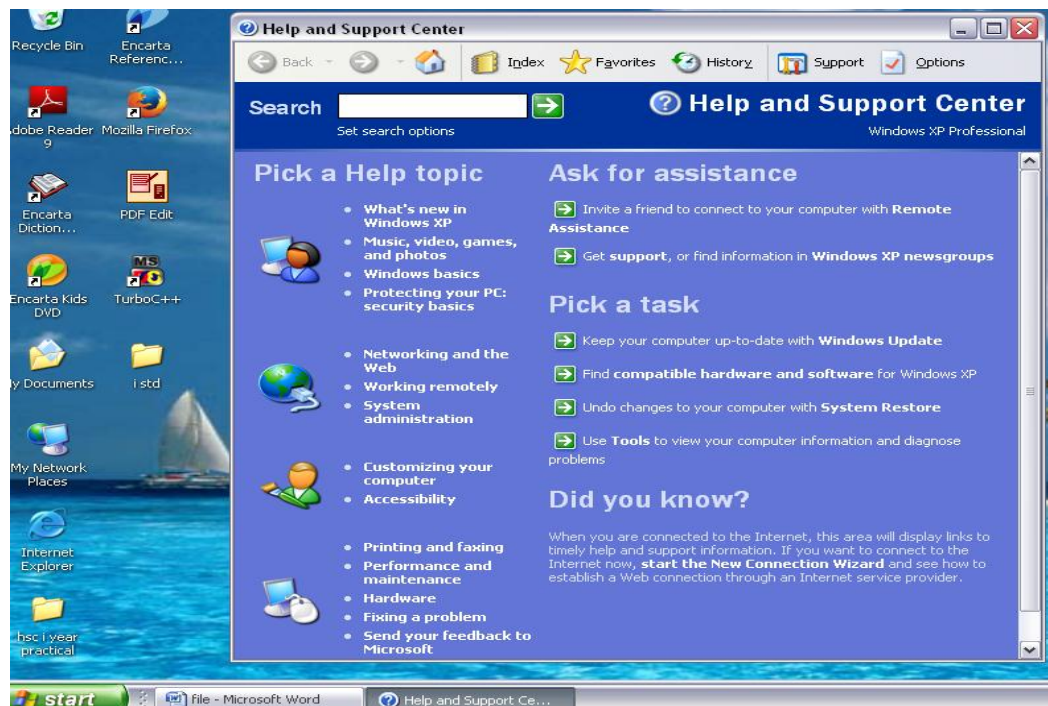
b) Step 1: Press **Winkey + E** to open Explorer window showing **My Computer**.



c) Step 1: Press **Winkey + Break box** to display **System Properties** dialog box



d) Step 1: Press **Winkey +F1** to open **Help and Support Center Window**



e) Step 1: Press **Alt + F4** to close each Window

5. WORKING WITH WINDOWS EXPLORER

EXERCISE : 5

5. Write the steps to do the following.

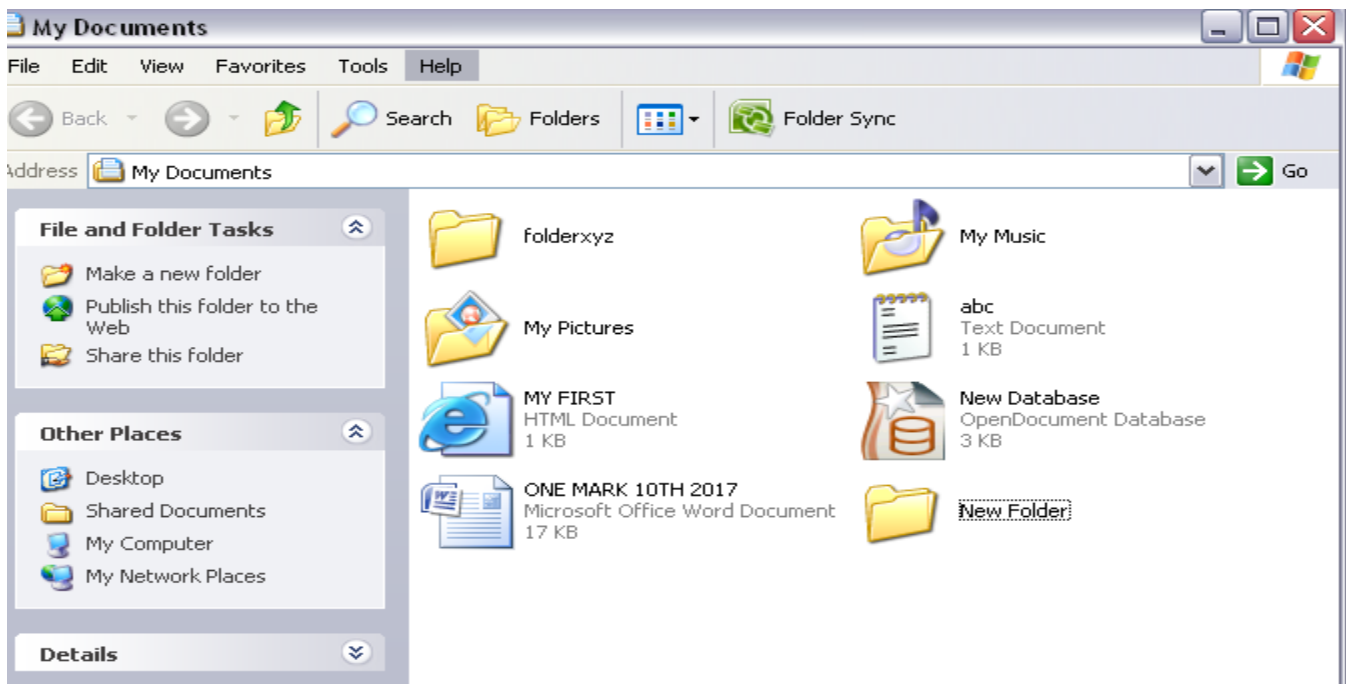
- Open Windows Explorer and create a new folder using **Explorer bar**.
- Switch to any other folder using “**Other Places**” option.
- Display the files in the folder in different views.
- Search a particular file using windows Explorer

PROCEDURE

a) Step 1: Click on **Start → All Programs → Accessories → Windows Explorer**.

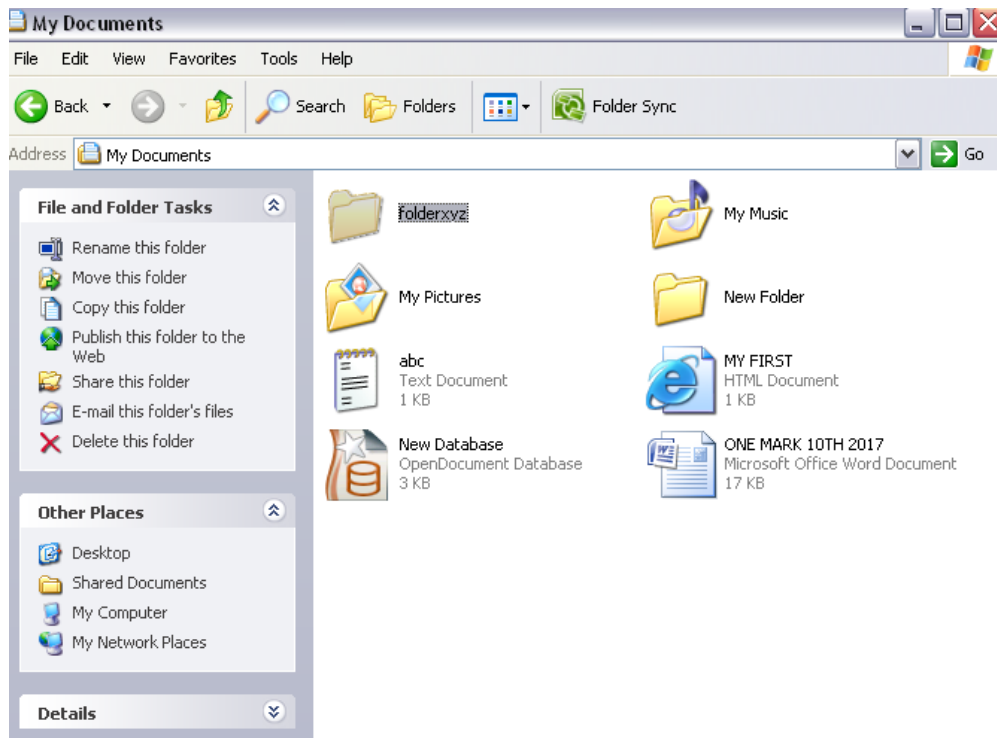
Select **View → Explorer Bar** and disable **Folder** option.

Step 2: Click on **Make new folder** under **File and Folder Tasks**. A new folder will be created.



b) Step 1: Click on **Other Places** on **Explorer bar**.

Step 2: Select any of the available folder.



c) Step 1: Click on **Start** → **All Programs** → **Accessories** → **Windows Explorer**

Step 2: Select **View** → **Thumbnails** option

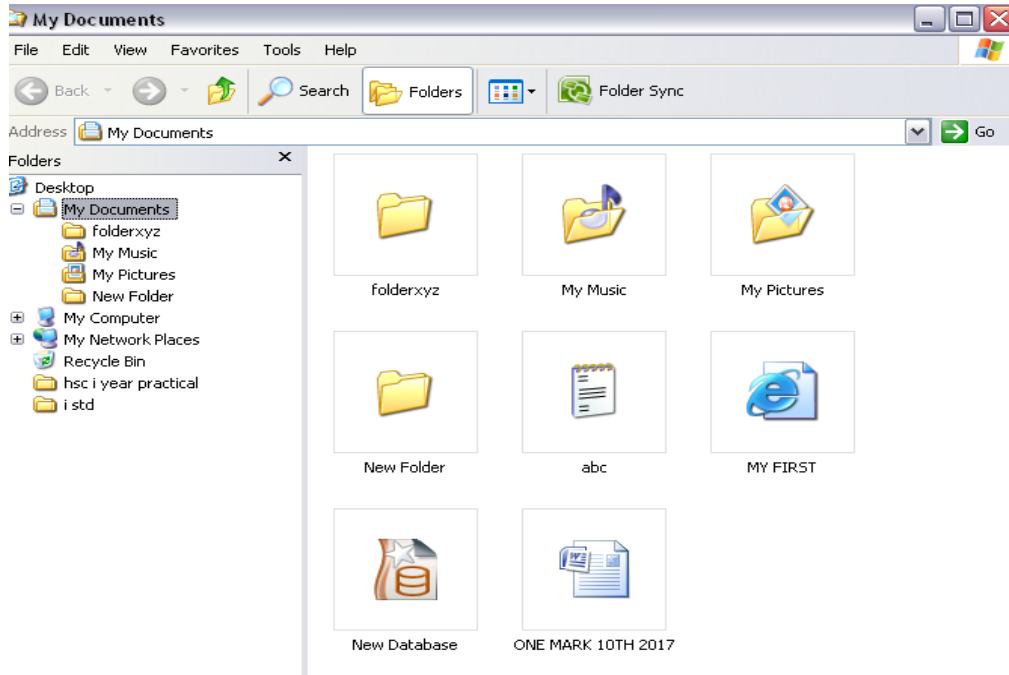
Step 3: Select **View** → **Tiles** option.

Step 4: Select **View** → **Icons** option.

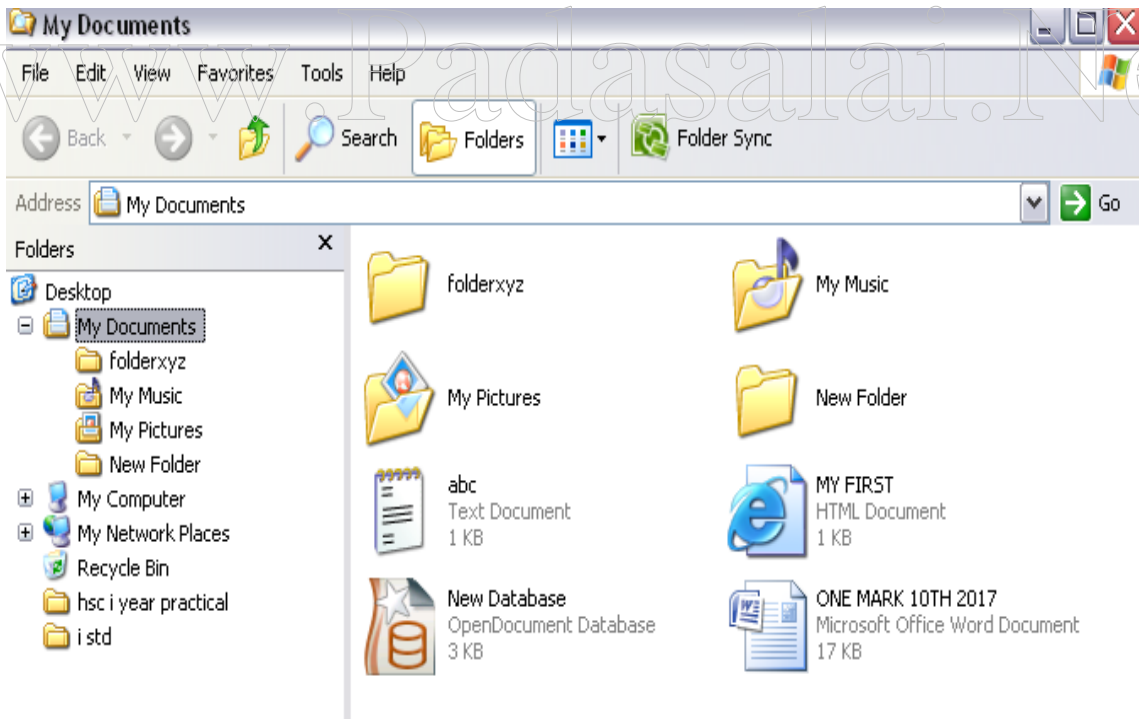
Step 5: Select **View** → **List** option.

Step 6: Select **View** → **Details** option.

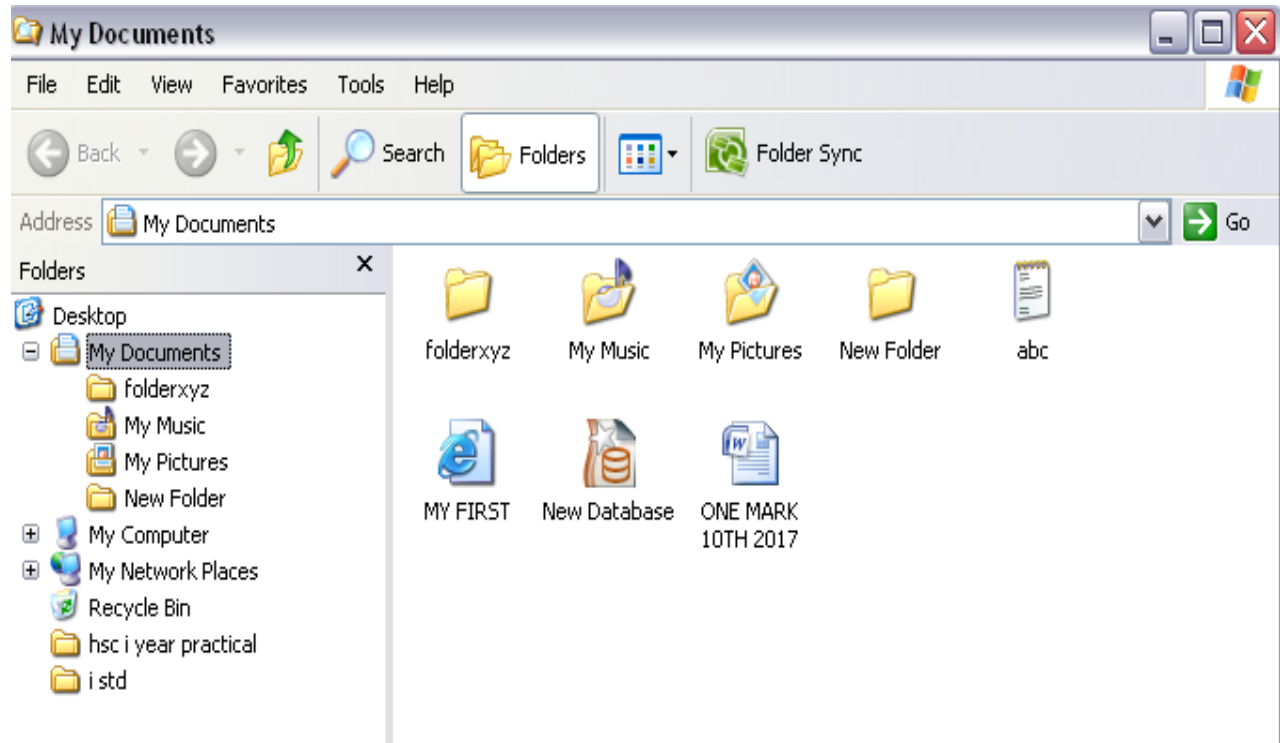
Thumbnails view Window



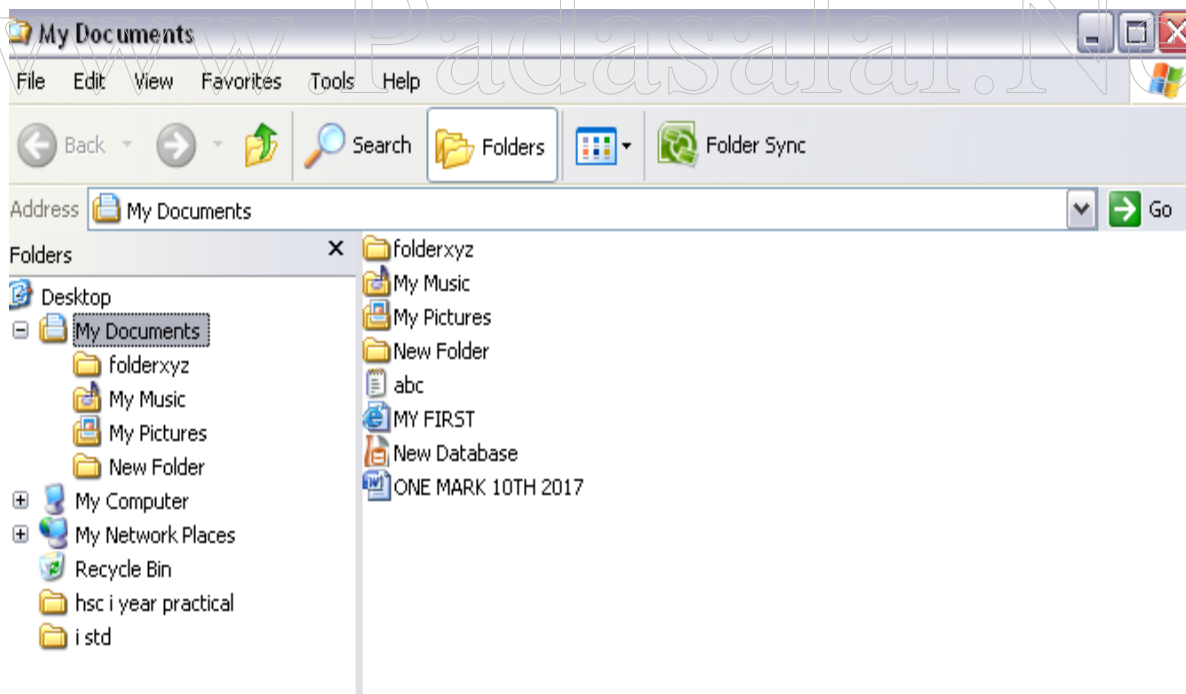
Tiles view Window



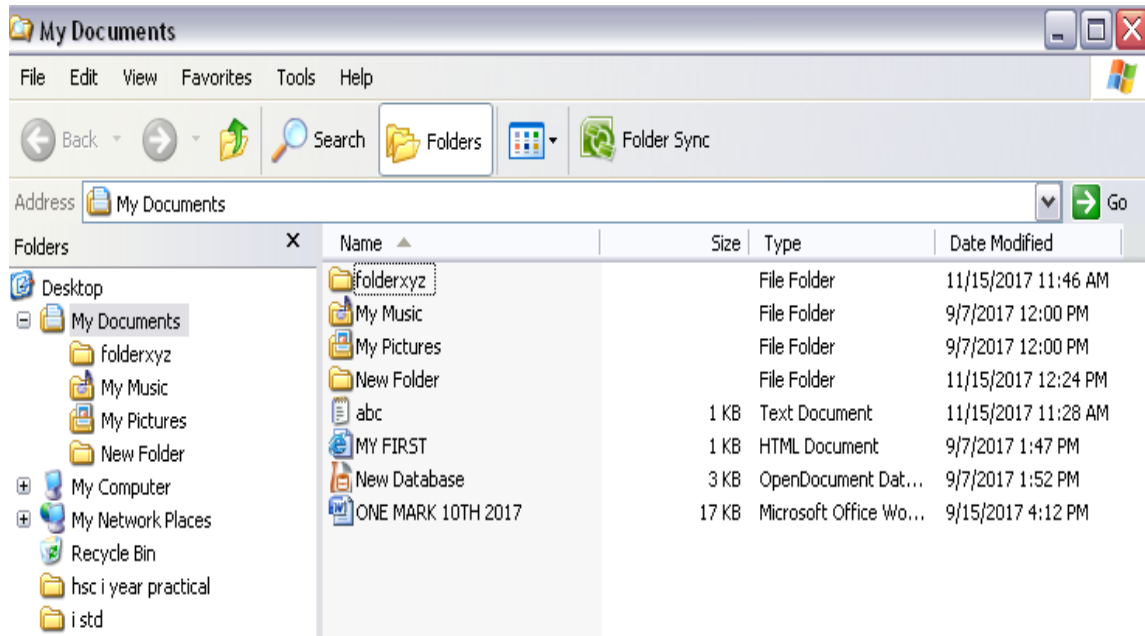
Icons view Window



List view Window



Details view



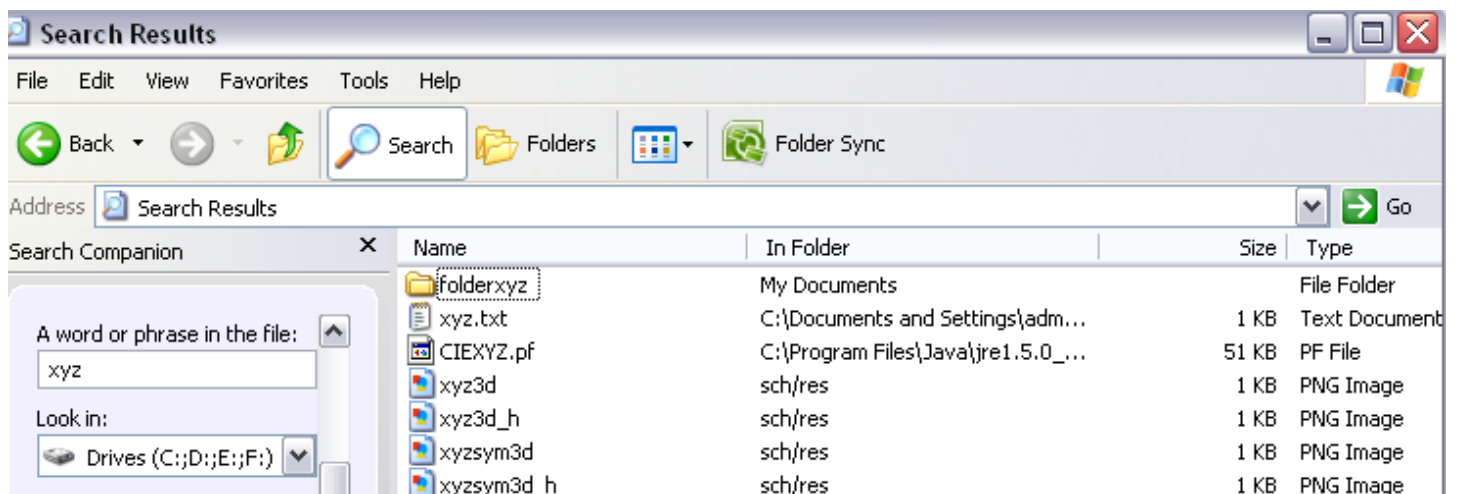
d) Step 1: Click on **Start** → **All Programs** → **Accessories** → **Windows Explorer**.

Step 2: Click on **Search** icon.

Step 3: Select **All files and Folder** option in **Search Companion**.

Step 4: Type the **file name (xyz)** to be searched.

Step 5: In **Look in** drop down list box, select **Local Hard Drives (C: ; d: ; E: ; F:)**



LINUX

6.CREATE AND REMOVE DIRECTORY

EXERCISE :6

6. Write steps to do the following.

a) Create new directory “**Folder1**” using Linux commands.

b) Create a file with file name “**Lindata**” and the following text.

“**Many Linux commands receive data from the Standard Input.**

You are encourage to work with the Linux”

c) Copy the file “**Lindata**” to the directory “**Folder1**”.

d) Remove the file “**Lindata**” from the directory “**Folder1**”.

e) Display the message “**Linux Commands are more powerful**” to the user

(Using echo command)

PROCEDURE:

a) Step 1: Type the command **mkdir Folder 1**. The directory will be created.

OUTPUT:

```
[unicare@localhostunicare]$ mkdir Folder 1.
```

b) Step 1: Type the following **cat>Lindata**

Step 2: Type the following text.

“**Many Linux commands receive data from the Standard Input.**

You are encourage to work with the Linux”

Step 3: Press **Ctrl+ Z** to save the file.

OUTPUT:

```
[unicare@localhostunicare]$ cat>Lindata
```

“**Many Linux commands receive data from the Standard Input.**

You are encourage to work with the Linux”

```
[1]+ stopped          cat >Lindata
```

c) Step 1: Type the command **cpLindata Folder 1.**

OUTPUT:

```
[unicare@localhostunicare]$ cpLindata Folder 1.
```

d) Step 1: Type the command **cd Folder 1.**

Step 2: Now type command **rmLindata**

OUTPUT:

```
[unicare@localhostunicare]$ cd Folder 1.
```

```
[unicare@localhostunicare]$ rm Folder 1.
```

e) Step 1: Type the command **echo "Linux commands are more powerful".**

OUTPUT:

```
[unicare@localhostunicare]$ echo "Linux Commands are more Powerful"
```

```
Linux Commands are more Powerful
```

```
[unicare@localhostunicare]$ [ ]
```

7. DISPLAY DIRECTROY CONTENT

EXERCISE :7

7. Write steps to display.

a) The contents of a Directory using "ls" command with any five options.

PROCEDURE:

a) Step 1: Type the command **\$ ls -a** to display list of files including hidden files.

Step 2: Type the command **\$ ls -F** to display file type along with the file name.

Step 3: Type the command **\$ ls -R** to display the working directory as well as sub dir.

Step 4: Type the command **\$ ls -r** to display Files/sub directory in reverse order.

Step 5: Type the command **\$ls -s** to sort file by file size.

8. CHANGE AND RESET PASSWORD

EXERCISE :8

7. Write steps do to the following.

- a) Change the Password of the Current User and reset the Password to original using Linux commands.
- b) Assign any tow integer values to variables and find the sum.
- c) Clear the Screen using Linux commands.

PROCEDURE:

a) Step 1: Type the command **passwd**.

Step 2: Type the current password.

Step 3: Type the new password.

Step 4: Retype the new password again. After entering the new password , a message
Is displayed as **“passed all authentication tokens updated successfully”**.

OUTPUT:

```
[unicare@localhostunicare]$ passwd
```

```
Changing password for user unicare
```

```
Changing password for unicare
```

```
(current) UNIX password:
```

```
new password:
```

```
Retype new password:
```

```
Passwd : all authentication tokens updated successfully.
```

```
[unicare@localhostunicare]$ [ ]
```

b) Step 1: Type the variable **num=10**

Step 2: Type the variable name **num=20**

Step 3: Type the command **expr Snum1+num2**.

OUTPUT:

```
[unicare@localhostunicare]$ num1=10
```

```
[unicare@localhostunicare]$ num2=20
```

```
[unicare@localhostunicare]$ expr $num1+$num2
```

```
30.
```

```
[unicare@localhostunicare]$ [ ]
```

c) Step 1: Type the command **Clear**.

OUTPUT:

```
[unicare@localhostunicare]$ clear
```

```
[unicare@localhostunicare]$ [ ]
```

9. SORTING DATA IN A FILE

EXERCISE :9

9. Write steps to do the following.

a) Create a File with five students names of your class with files names **“abc”**.

b) Sort the file **“abc”** and transfer output to another file with file name

“abcsort”. (Using sort command)

c) Rename the file **“abcsort”** as **“xyz”**.

PROCEDURE:

a) Step 1: Type the command **cat >abc**

Step 2: Type the five students name.

Step 3: after typing, press **Ctrl+Z** to save the file.

OUTPUT:

```
[unicare@localhostunicare]$ cat>abc
Swetha
Rahul
Maya
Deepa
Jeagn
```

```
[1] + stopped          cat >abc
```

- b) Step 1: Type the command **sort abc | tee abcsort** to transfer the sorted content to **abcsort** file.

OUTPUT:

```
[unicare@localhostunicare]$ sort abc | tee abcsort
Deepa
Jegan
Maya
Rahul
Swetha
```

```
[unicare@localhostunicare]$ [ ]
```

- c) Step 1: Type the command **mv abcsort xyz**
Step 2: Type **ls** command to view the renamed file.

OUTPUT:

```
[unicare@localhostunicare]$ mv abcsort xyz
```

```
[unicare@localhostunicare]$ ls
```

```

evolution      lin           q            untitled 1
First project  Lindata      Sortcol     XIEXERCISE
Folder 1       Projects     sun         xyz
```

```
[unicare@localhostunicare]$ [ ]
```

10. DISPLAY DATE AND TIME IN DIFFERENT FORMATS

EXERCISE :10

10. Write procedure to display.

- a) Day of the month (in digit)
- b) Date as mm/dd/yy format.
- c) Time as HH:MM:SS
- d) Abbreviated month.
- e) Time in **AM / PM** notation.

PROCEDURE:

- a) Step 1: Type the command `$ date "+%d"` to display day of the month in digit.
Step 2: Type the command `$ date "+%D"` to display date as **mm/dd/yy** format.
Step 3: Type the command `$ date "+%T"` to display time as **HH:MM:SS**
Step 4: Type the command `$ date "+%h"` to display abbreviated month.
Step 5: Type the command `$ date "+r"` to display in **AM / PM** notation.

OUTPUT:

```
[unicare@localhostunicare]$ date "+%d"
```

```
17
```

```
[unicare@localhostunicare]$ date "+%D"
```

```
11/17/2017
```

```
[unicare@localhostunicare]$ date "+%T"
```

```
12:06:54
```

```
[unicare@localhostunicare]$ date "+%h"
```

```
Nov
```

```
[unicare@localhostunicare]$ date "+%r"
```

```
[unicare@localhostunicare]$ [ ]
```

HTML

11. DISPLAY YOUR NAME AND SCHOOL ADDRESS

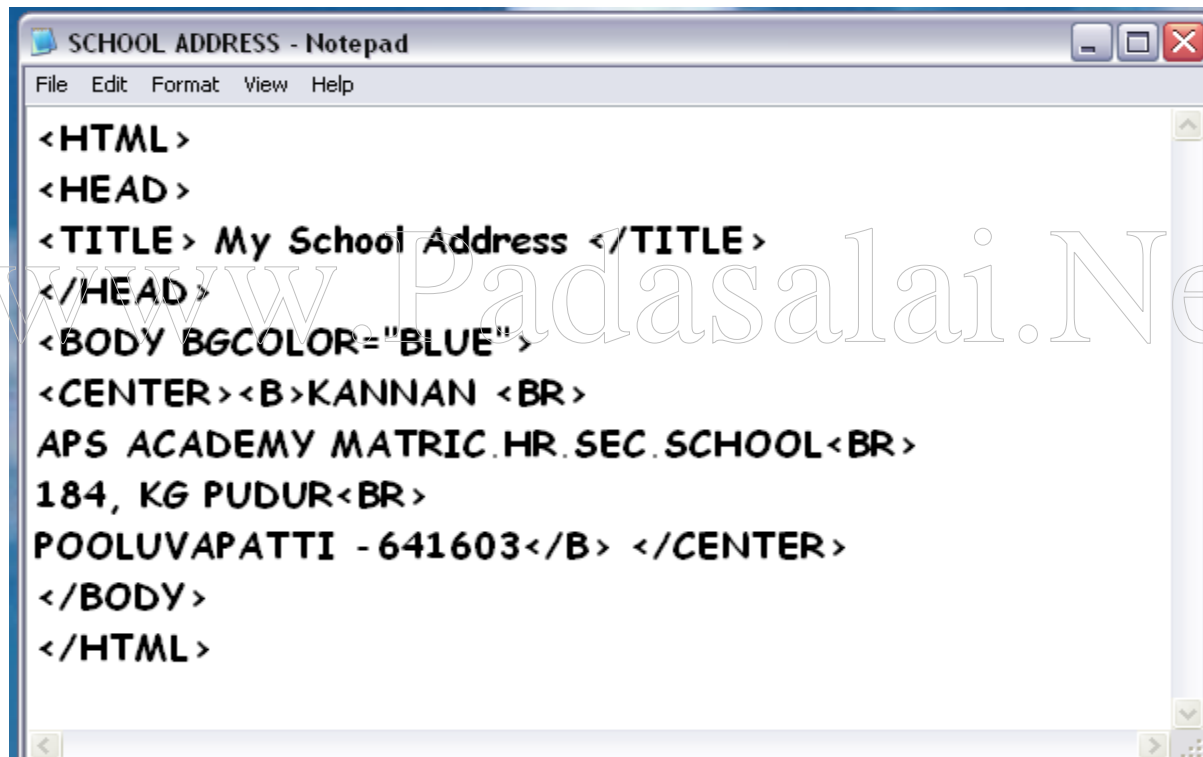
PROBLEM:

Write a HTML code to display Name and School Address in Bold with Blue Background.

AIM:

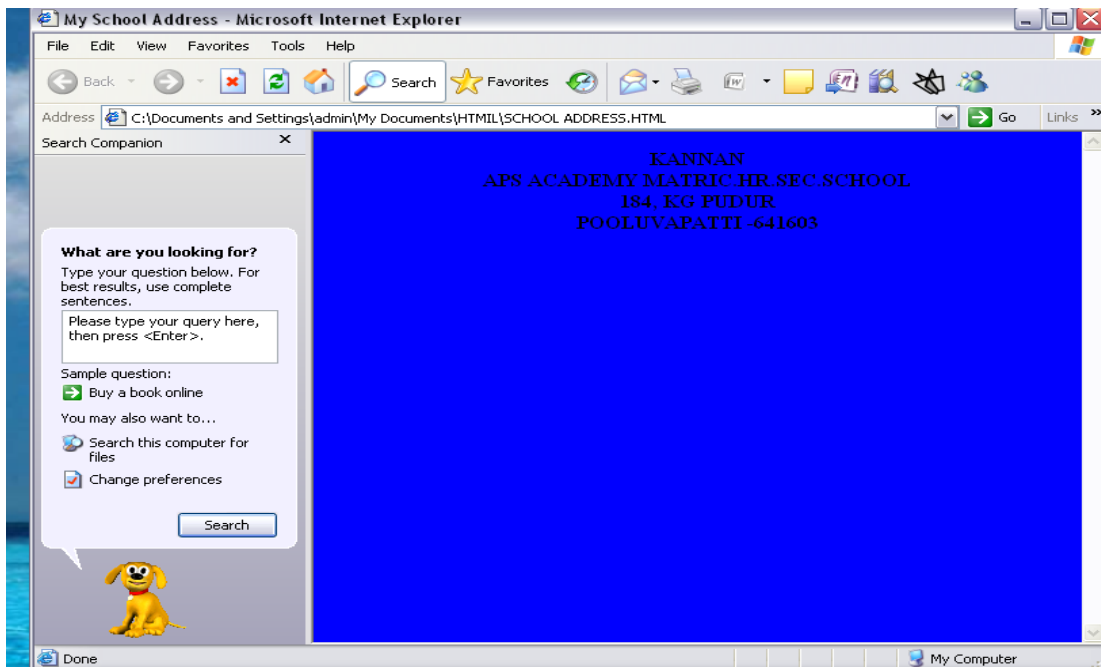
To write a HTML code to display your name and School address in Bold with Blue Background.

PROGRAM CODING:



```
<HTML >
<HEAD >
<TITLE > My School Address </TITLE >
</HEAD >
<BODY BGCOLOR="BLUE" >
<CENTER ><B >KANNAN <BR >
APS ACADEMY MATRIC.HR.SEC.SCHOOL<BR >
184, KG PUDUR<BR >
POOLUVAPATTI - 641603</B > </CENTER >
</BODY >
</HTML >
```

OUTPUT



12. DISPLAY AN ADVERTISEMENT

PROBLEM:

Write a HTML code to display the following advertisement as a web page and also change font, color, size to make it attractive.

“50% Discount on all Times”

“Hurry the offer is closing on 31st August”

AIM:

To write a HTML code to display the following advertisement as a web page and also change font, color, size to make it attractive.

50% Discount on all Times

“Hurry the offer is closing on 31st August”

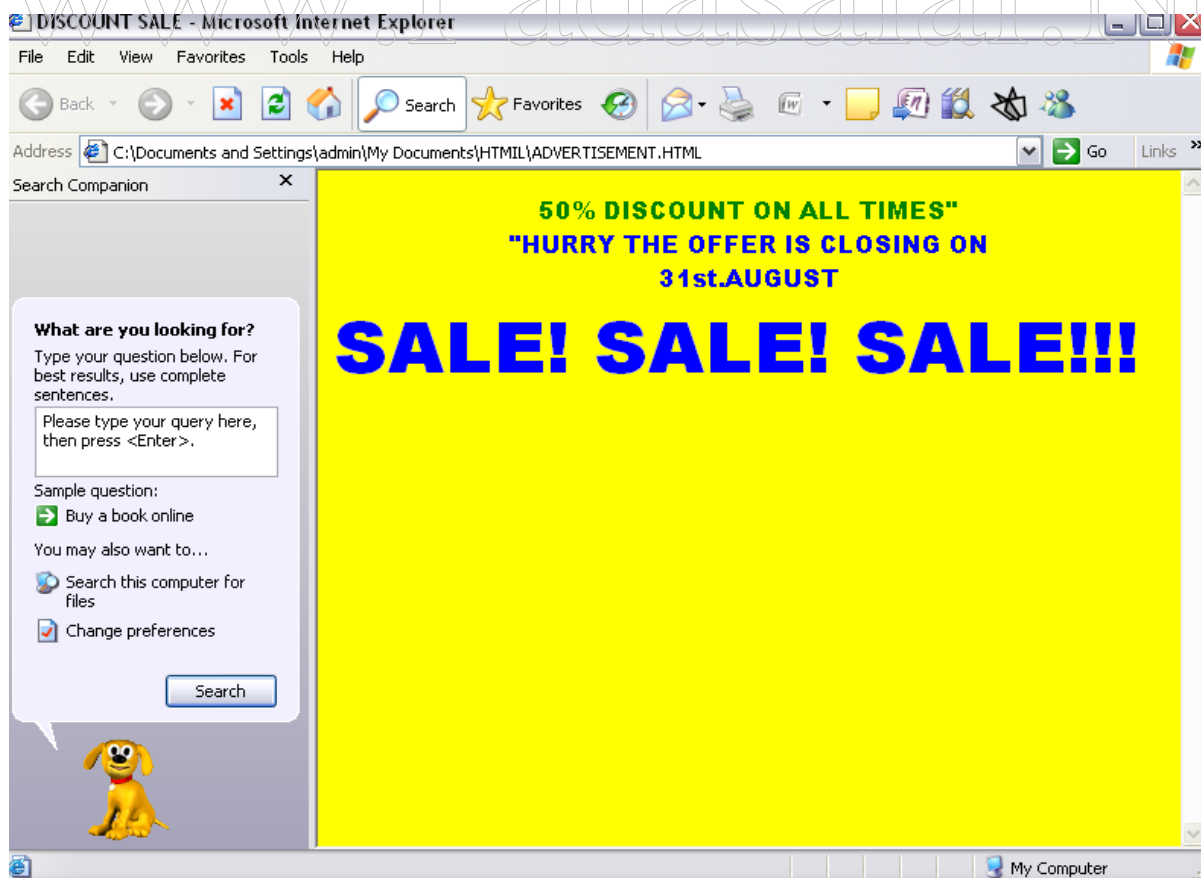
PROGRAM CODING:

```

ADVERTISEMENT - Notepad
File Edit Format View Help

<HTML >
<HEAD >
    <TITLE > DISCOUNT SALE </TITLE >
</HEAD >
<BODY BGCOLOR = "YELLOW" >
<FONT FACE = "ARIAL BLACK" SIZE="5" COLOR = "GREEN"</FONT >
<CENTER >50% DISCOUNT ON ALL TIMES"</CENTRE >
<FONT FACE="ARIAL NARRROW" SIZE="6" COLOR="BLUE"</FONT >
<CENTER >"HURRY THE OFFER IS CLOSING ON<BR > 31st.AUGUST </CENTER >
<FONT FACE = "TIME NEW ROMAN" SIZE="7" = "RED" </FONT >
<MARQUEE > SALE! SALE! SALE!!! </MARQUEE >
</BR >
</BODY >
</HTML >

```

OUTPUT

13.CLASS TIME TABLE

PROBLEM:

Write a HTML code to display Class Time Table with cell attributes.

AIM:

To Write a html code to display your Class Time Table with cell attributes.

PROGRAM CODING:

```
<HTML>
```

```
<HEAD>
```

```
<TITLE>XI STD CLASS TIME TABLE </TITLE>
```

```
</HEAD>
```

```
</BODY>
```

```
<TABLE WIDTH =200 BORDER =5>
```

```
<TR BGCOLOR="RED" ALIGN="CENTER">
```

```
<TH>DAY</TH>
```

```
<TH>1</TH>
```

```
<TH>2</TH>
```

```
<TH>3</TH>
```

```
<TH>4</TH>
```

```
<TH>5</TH>
```

```
<TH>6</TH>
```

```
<TR BGCOLOR="GREEN" ALIGN="CENTER">
```

```
<TH>MONDAY</TH>
```

```
<TD>BIOLOGY</TD>
```

```
<TD>HISTORY</TD>
```

```
<TD>PHYSICAL SCIENCE</TD>
```

```
<TD>TAMIL</TD>
```

```
<TD>ENGLISH</TD>
```

```
<TD>MATHS</TD>
```

<TR BGCOLOR="RED"ALIGN="CENTER">

<TH>TUESDAY</TH>

<TD>BIOLOGY</TD>

<TD>HISTORY </TD>

<TD>PHYSICAL SCIENCE</TD>

<TD>TAMIL</TD>

<TD>ENGLISH</TD>

<TD>MATHS </TD>

<TR BGCOLOR="YELLOW ALIGN ="CENTER">

<TH>WEDNESDAY</TH>

<TD>BIOLOGY</TD>

<TD>HISTORY></TD>

<TD>PHYSICAL SCIENCE </TD>

<TD>TAMIL</TD>

<TD>ENGLISH</TD>

<TD>MATHS</TD>

<TR BGCOLOR="RED"ALIGN="CENTER">

<TH>THURSDAY</TH>

<TD>BIOLOGY</TD>

<TD>HISTORY</TD>

<TD>PHYSICAL SCIENCE</TD>

<TD>TAMIL</TD>

<TD>ENGLISH</TD>

<TD>MATHS</TD>

<TR BGCOLOR="PURPLE"ALIGN="CENTER">

<TH>FRIDAY</TH>

<TD>BIOLOGY</TD>

<TD>HISTORY</TD>

<TD>PHYSICAL SCIENCE</TD>

<TD>TAMIL</TD>

<TD>ENGLISH</TD>

<TD>MATHS</TD>

</BODY>

</HTML>

OUTPUT:

XI STD CLASS TIME TABLE - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites

Address C:\Documents and Settings\admin\My Documents\HTML\CLASS TIME TABLE.HTML Go Links

Search Companion

What are you looking for?
Type your question below. For best results, use complete sentences.
Please type your query here, then press <Enter>.
Sample question:
Search

DAY	1	2	3	4	5	6
MONDAY	BIOLOGY	HISTORY	PHYSICAL SCIENCE	TAMIL	ENGLISH	MATHS
TUESDAY	BIOLOGY	HISTORY	PHYSICAL SCIENCE	TAMIL	ENGLISH	MATHS
WEDNESDAY	BIOLOGY	HISTORY	PHYSICAL SCIENCE	TAMIL	ENGLISH	MATHS
THURSDAY	BIOLOGY	HISTORY	PHYSICAL SCIENCE	TAMIL	ENGLISH	MATHS
FRIDAY	BIOLOGY	HISTORY	PHYSICAL SCIENCE	TAMIL	ENGLISH	MATHS

Done My Computer

14. ORDERED AND UNORDERED LIST


PROBLEM:

Write a HTML code to create ordered and unordered list

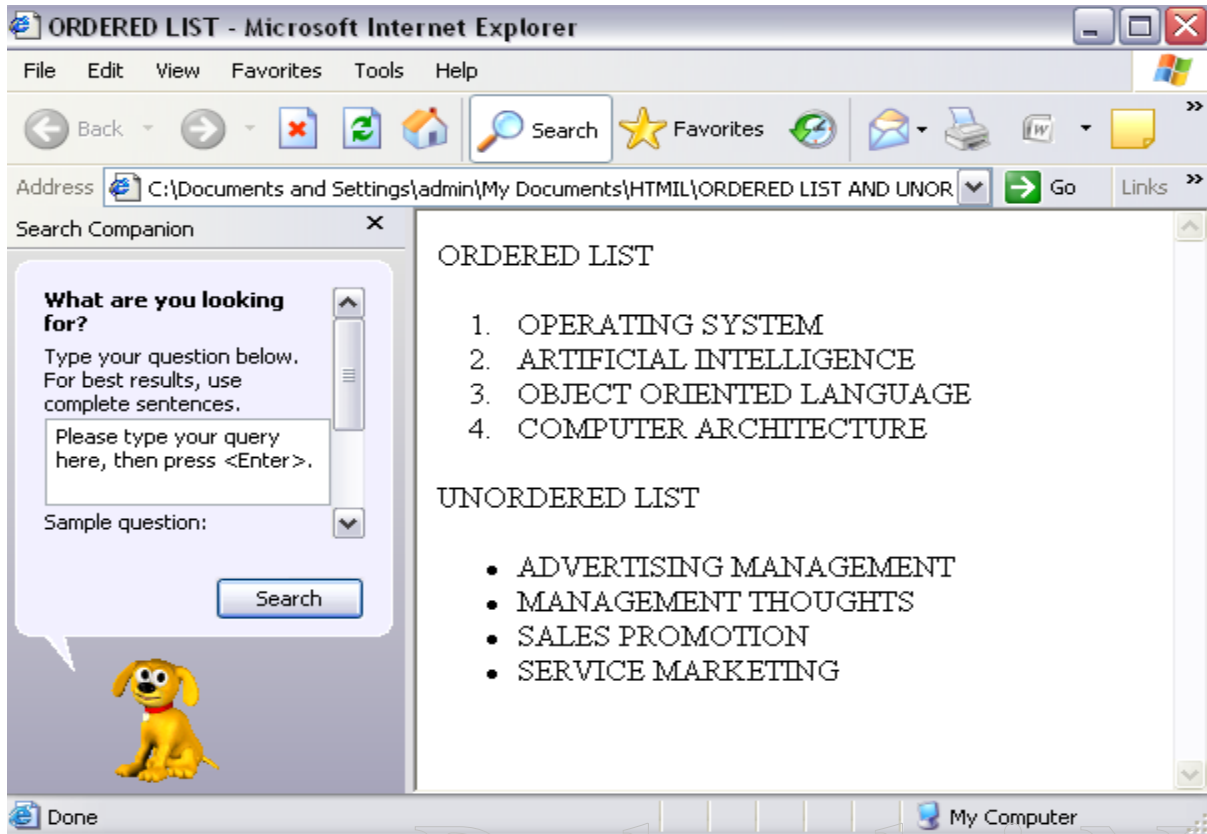
AIM:

To Write a html code to create ordered and unordered list.

PROGRAM CODING:

A screenshot of a Notepad window titled "ORDERED LIST AND UNORDEREDLIST - Notepad". The window contains the following HTML code:

```
<HTML >
<HEAD ><TITLE >ORDERED LIST</TITLE >
</HEAD >
<HI >ORDERED LIST</HI >
<OL >
<LI >OPERATING SYSTEM
<LI >ARTIFICIAL INTELLIGENCE
<LI >OBJECT ORIENTED LANGUAGE
<LI >COMPUTER ARCHITECTURE
</OL >
<HI >UNORDERED LIST</HI >
<UL >
<LI >ADVERTISING MANAGEMENT
<LI >MANAGEMENT THOUGHTS
<LI >SALES PROMOTION
<LI >SERVICE MARKETING
</UL >
</BODY >
</HTML >
```

OUTPUT:

ORDERED LIST - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <C:\Documents and Settings\admin\My Documents\HTML\ORDERED LIST AND UNOR> Go Links

Search Companion

What are you looking for?
Type your question below.
For best results, use complete sentences.
Please type your query here, then press <Enter>.
Sample question:
Search

ORDERED LIST

1. OPERATING SYSTEM
2. ARTIFICIAL INTELLIGENCE
3. OBJECT ORIENTED LANGUAGE
4. COMPUTER ARCHITECTURE

UNORDERED LIST

- ADVERTISING MANAGEMENT
- MANAGEMENT THOUGHTS
- SALES PROMOTION
- SERVICE MARKETING

Done My Computer

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15. DISPLAY AN IMAGE AND LINK AND URL

PROBLEM:

Write a HTML code to display an image in a web page (using image tag) and also create hyperlink to URL-www.google.co.in.

AIM:

To Write a HTML code to display an image in a webpage (using image tag) and also create hyperlink to URL- www.google.co.in

PROGRAM CODING:



```
<HTML >
<HEAD ><TITLE ><IMAGE </IMAGE >
<BODY >
<HI >SUNSET </HI >
<IMG SRC=C:\MYDOCUMENTS\SUNSET.JPG" >
<A HREF="www.google.co.in"><WEBSITE ></A >
</BODY >
</HTML >
```

OUTPUT:

SECTION -B - C PROGRAMMING

PROCEDURE FOR EXECUTING C PROGRAMS

1. **To Enter A Program** : Double Click the TC icon.

File → NEW

2. **To Save the Program** : **Alt+F → Save** (or) **F2** File name should be with the extension of C

3. **To Compile the Program**: **ALT+C** (or) **ALT + F9**.

4. If your coding does not have any syntax error, a message box showing

“SUCCESS: PRESS ANY KEY” will be displayed.

5. **To Execute the program** : **ALT + R** (or) **CTRL + F9**

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1.FIBONACCI SERIES

PROBLEM:

Write a C Program to generate the Fibonacci Series of 15 terms

0,1 ,2,3,5,8.....

AIM:

To generate the Fibonacci series of 15 terms.

PROGRAM CODING:

```
#include<stdio.h>
#include<conio.h>
void main( )
{
clrscr( );

int a,b,c,i,n;
a=-1;
b=1;

printf("\n Enter the N term to generate Fibonacci Series :");
scanf( "%d\n" ,&n)
for( i=0;i<=n;i++)
{
c=a+b;
printf("\n%d",c);
a=b;
b=c;
}
getch( );
}
```

OUTPUT

```
Enter the N term to generate Fibbonacci Series10
```

```
0
1
1
2
3
5
8
13
21
34
```

2.NUMBER OF VOWELS IN A STRING

PROBLEM:

Write a C Program to count the number of vowels in a given string.

AIM:

To write a C program to count the number of vowels in a given string.

PROGRAM CODING:

```
#include<stdio.h>
#include<conio.h>
#include<string.h>
void main( )
{
clrscr( );
    int i,j,k;
    char s[15];
printf("\n Enter the String in lower case");
scanf("%s",&s);
i=strlen(s);
k=0;
for(j=0;j<=i;j++)
```

```
{
if((s[j] == 'a' || s[j] == 'e' || s[j] == 'i' || s[j] == 'o' || s[j] == 'u'))
k=k+1;
}
printf("\n Number of vowels in the Given String %s is %d", s,k);
getch();
}
```

OUTPUT

```
Enter the String in lower case madam
Number of vowels in the Given String madam is 2_
```

3. ADAM NUMBER

PROBLEM:

Write a C Program to display all Adam numbers between 10 and 100.....

AIM:

To write a C program to display all Adam numbers between 10 and 100.

PROGRAM CODING:

```
#include<stdio.h>
#include<conio.h>
#include<math.h>
void main( )
{
clrscr();

int r,p,m,b,n,rev,a,c,i,z;

r=0;

rev=0;
```



```
printf("\n Enter any number between 10 to 100");
scanf("%d",&z);
n=z;
c=n*n;
while(n!=0)
{
m=n%10;
r=r*10+m;
n=n/10;
}
printf("\n The Square of %d is \t %d",z,c);
printf("\n The reverse of %d is \t %d",z,r);
p=r*r;
printf("\n The Square of %d is \t %d",r,p);
while(c!=0)
{
a=c%10;
rev=rev*10+a;
c=c/10;
}
if(rev==p)
printf("\n Thus %d is an Adam Number",z);
printf("\n Thus %d is not an Adam Number",z);
getch();
}
```

OUTPUT

```
Enter any number between 10 to 10030
The Square of 30 is    900
The reverse of 30 is
The Square of 3 is    9
Thus 30 is an Adam Number_
```

4.CONVERSION OF BINARY TO DECIMAL

PROBLEM:

Write a C Program to convert binary number to its equivalent decimal number.

AIM:

To write a C program to convert binary to its equivalent decimal number.

PROGRAM CODING:

```
#include<stdio.h>
#include<conio.h>
void main( )
{
clrscr( );
int num,binary_val,decimal_val=0,base=1,rem;
printf("\n Enter a binary number.....");
scanf("%d",&num);
binary_val=num;
while(num>0)
{
    rem=num%10;
    decimal_val=decimal_val+rem*base;
    num=num/10;
    base=base*2;
}
printf("\n The Binary number is =%d", binary_val);
printf("Its decimal equivalent is =%d", decimal_val);
getch( );
}
```

OUTPUT:

```
Enter the binary number....
10111
The Binary number is =10111Its decimal equivalent is =23
```

5.PERFECT NUMBER

PROBLEM:

Write a C Program to find the Perfect numbers from 1 to n terms

AIM:

To write a C program to find the Perfect numbers from 1 to n terms

PROGRAM CODING:

```
#include<stdio.h>
#include<conio.h>
void main( )
{
clrscr ( );
int i,j,n,s=0;
printf("\n Enter any number ");
scanf("%d",&n);
printf("\n Perfect Numbers are");
for(i=1;i<=n;i++)
{
s=0;
for(j=1;j<i; j++)
{
if(i%j==0)
s=s+j;
}
if(s==i)
printf("\n %d",i);
}
getch( );
}
```

OUTPUT

```
Enter any number30
Perfect numbers are
6
28
```

6. PALINDROME**PROBLEM:**

Write a C Program to find whether the given string is palindrome or not.

AIM:

To write a C program to find whether the given string is palindrome or not.

PROGRAM CODING:

```
#include<stdio.h>
#include<conio.h>
#include<string.h>

void main( )
{
clrscr( );
char a[100], b[100];
printf("\n Enter the string to check if it is a palindrome or not");
gets(a);
strcpy(b,a);
strrev(b);
if(strcmp(a,b)= =0)
printf("\n Entered string is a palindrome");
else
```

```
printf("\n Entered string is not a palindrome");  
getch();  
}
```

OUTPUT

```
Enter the string to check if it a palindrome or notLIRIL  
Entered string is a palindrome
```

7. DESCENDING ORDER

PROBLEM:

Write a C Program to arrange the array of "N" numbers in descending order.

AIM:

To write a C program to arrange the array of "N" numbers in descending order.

PROGRAM CODING:

```
#include<stdio.h>  
#include<conio.h>  
void main( )  
{  
clrscr( );  
int a[10], i,j,temp=0,n;  
printf("\n Enter the terms.....");  
scanf("%d",&a[i]);  
}  
for(i=0;j<n;i++)  
{  
for(j=i+1;j<n;j++)
```

```
{  
if(a[i] < a[j])  
{  
temp = a[j];  
a[j] = a[i];  
a[i] = temp;  
}  
}  
}  
for(i=0; i<n; i++)  
{  
printf("\n %d", a[i]);  
}  
getch();  
}
```

OUTPUT:

```
Enter the terms. 5  
Enter the numbers...1  
Enter the numbers...2  
Enter the numbers...3  
Enter the numbers...4  
Enter the numbers...5  
5  
4  
3  
2  
1_
```

8. SUM OF DIAGONAL ELEMENTS OF A MATRIX

PROBLEM:

Write a C Program to find the sum of diagonal elements of a matrix.

AIM:

To write a C program to find the sum of diagonal elements of a matrix.

PROGRAM CODING:

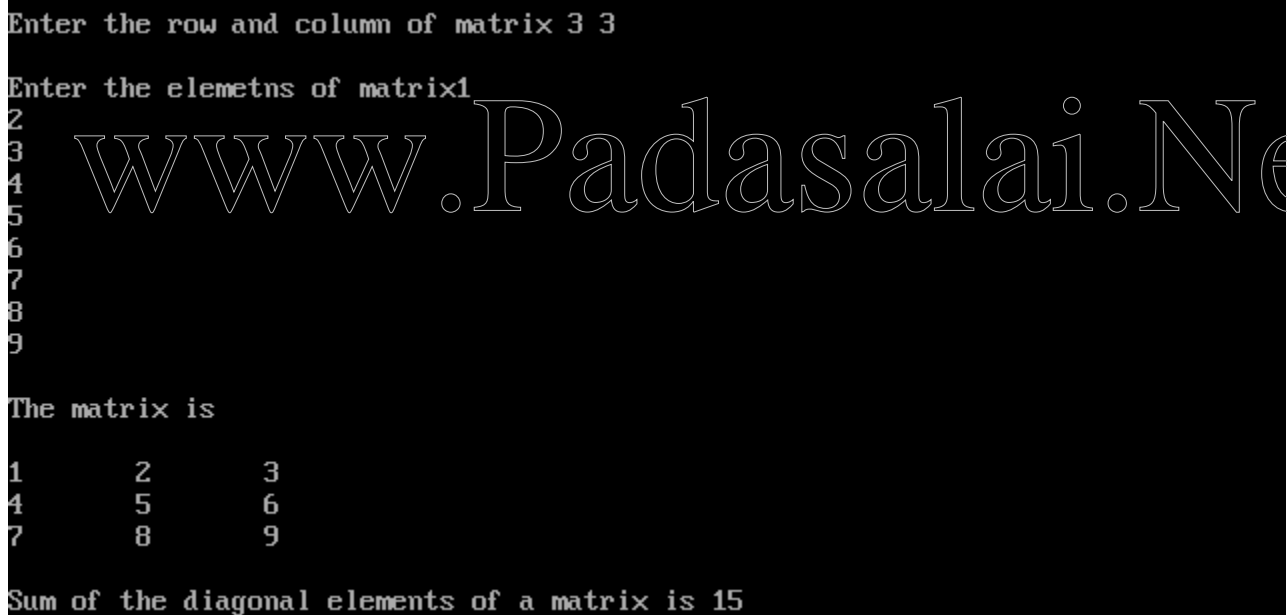
```
#include<stdio.h>
#include<conio.h>
void main ( )
{
clrscr( );
int a[10][10],i,j,sum=0,m,n;
printf("\nEnter the row and column of matrix");
scanf("%d%d",&m,&n);
printf("\nEnter the elements of matrix");
for(i=0;i<m;i++)
    for(j=0;j<n;j++)
scanf("%d",&a[i][ j]);
printf("\nThe matrix is \n");
for(i=0;i<m;i++)
{
printf("\n");
for(j=0;j<m;j++)
{
printf("%d\t",a[i][ j]);
}
}
}
```

```
for(i=0;i<m;i++)
{
for(j=0;j<n;j++)
{
if(i==j)
sum=sum+a[i][ j ];
}
}

printf("\n\nSum of the diagonal elements of a matrix is %d",sum);

getch();
}
```

OUTPUT:



Enter the row and column of matrix 3 3

Enter the elemetns of matrix1

2

3

4

5

6

7

8

9

The matrix is

1	2	3
4	5	6
7	8	9

Sum of the diagonal elements of a matrix is 15

9. TRANSPOSE OF A MATRIX

PROBLEM:

Write a C Program to get Transpose of a matrix.

AIM:

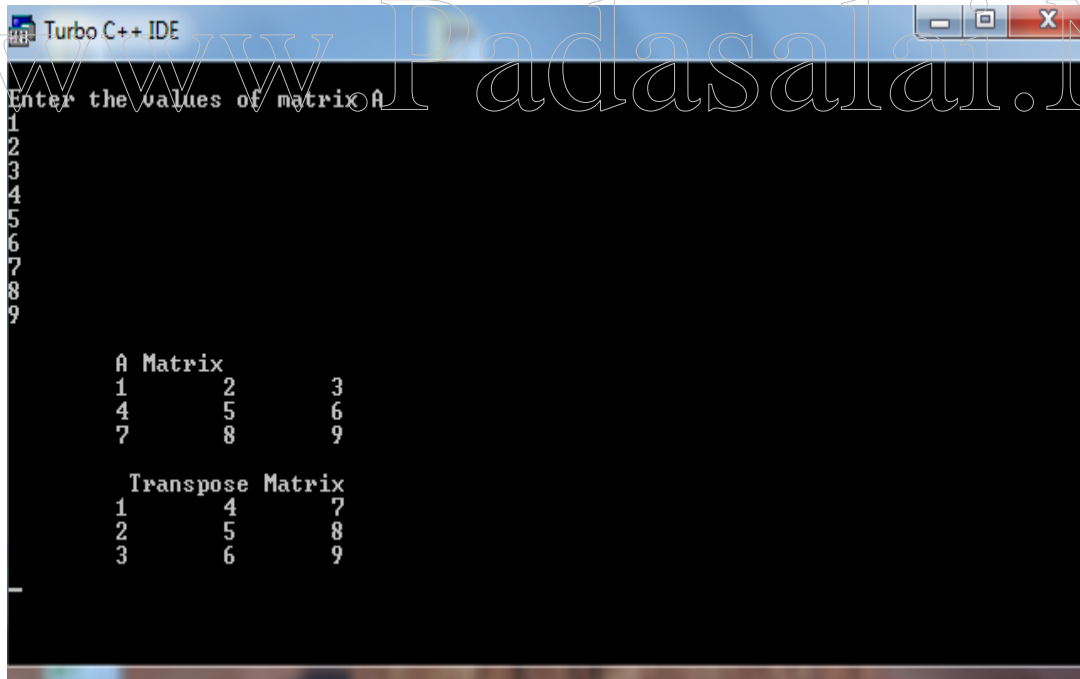
To write a C program to get Transpose of a matrix.

PROGRAM CODING:

```
#include<stdio.h>
#include<conio.h>
void main( )
{
clrscr( );
int a[3][3],b[3][3],i,j;
printf("\nEnter the values of Matrix A");
for(i=0;i<3;i++)
{
for(j=0;j<3;j++)
scanf("%d",&a[i][ j ]);
}
for(i=0;i<3;i++)
{
for(j=0;j<3;j++)
b[i][ j ] = a[ j ][ i];
}
printf("\n\tA Matrix");
printf("\n");
for(i=0;i<3;i++)
{
for(j=0;j<3;j++)
```

```
printf("\t%d",a[i][ j ]);
printf("\n");
}
printf("\n\t Transposed Matrix");
printf("\n");
for(i=0;i<3;i++)
{
for(j=0;j<3;j++)
printf("\t%d",b[i][ j ]);
printf("\n");
}
getch( );
}
```

OUTPUT:



```
Turbo C++ IDE
Enter the values of matrix A
1
2
3
4
5
6
7
8
9

A Matrix
1      2      3
4      5      6
7      8      9

Transpose Matrix
1      4      7
2      5      8
3      6      9
```

10.STORING AND PRINTING NAME IN AN ARRAY

PROBLEM:

Write a C Program to store 10 names in an array and print them each in the line.

AIM:

To write a C program to store 10 names in an array and print them each in the line.

PROGRAM CODING:

```
#include<stdio.h>
#include<conio.h>
void main ( )
{
clrscr( );
printf("\n enter 10 names \n");
for(i=0;i<10;i++)
scanf("%s",&a[i]);
for(i=0;i<10;i++)
printf("\n%s",a[i]);
getch( );
}
```

OUTPUT:

```
enter 10 names
ANAND
BALU
ARUN
MAGESH
HARI
SENTHIL
SELVA
MURUGAN
PRAVEEN
MOHAN

ANAND
BALU
ARUN
MAGESH
HARI
SENTHIL
SELVA
MURUGAN
PRAVEEN
MOHAN
```

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