FIBONACCI SERIES AND SUM OF N NUMBERS

AIM

To write a simple program using loops and decision making statements to generate Fibonacci series and sum of N numbers.

ALGORITHM

Step 1: Start the process**.**

Step 2: Click →All programs→ Microsoft Visual Studio→ Microsoft Visual Basic 6.0. →New Project→Standard.ExE

Step3: Add one label control, one textbox control, one list box control and two command button controls.

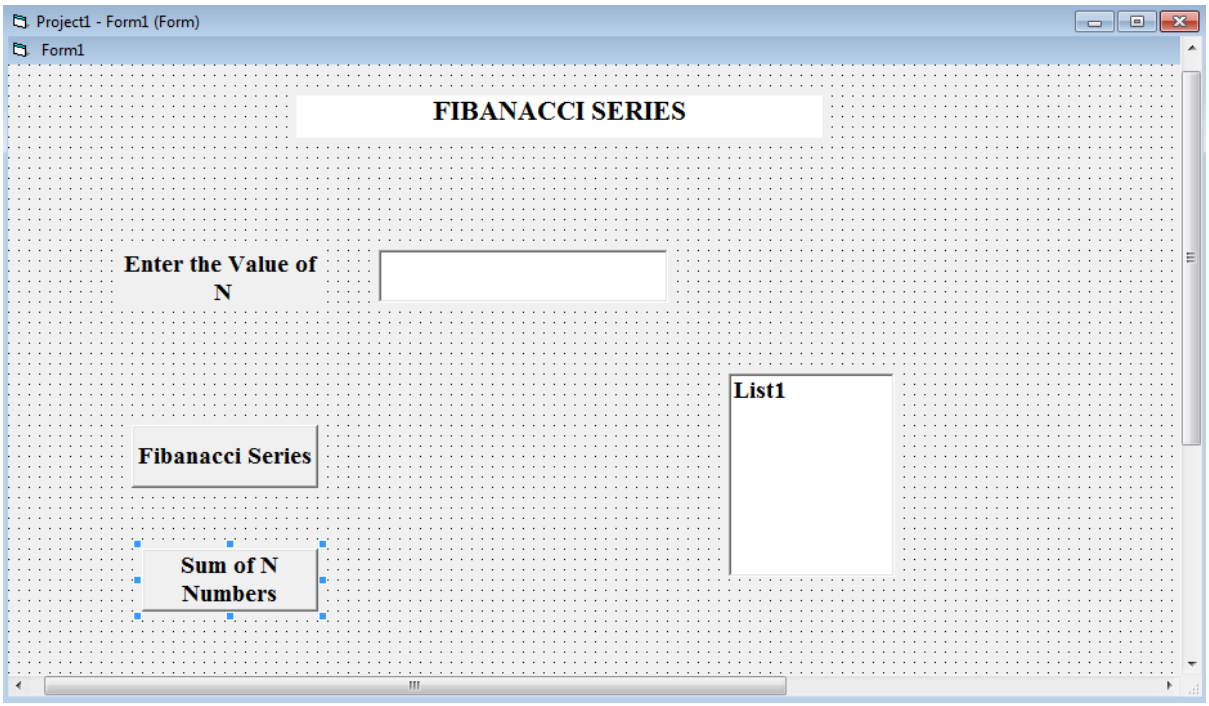
Step 4: Fetch the controls in Toolbox and place it to the Form window.

Step 5: After inserting the control write the coding to generate the Fibonacci series and find the sum of N numbers**.**

Step 6: To Run the Visual Basic program using F5 button or Click Start button**.**

Step 7: Stop and exit the program.

S.No	Object	Property	Setting
1.	Label	Name	Label 1
		Caption	Fibonacci Series and Sum of N numbers
2.	Label	Name	Label 2
		Caption	Enter the value of N
3.	Listbox	Name	Listbox1
4.	Command	Name	Fibonacci
		Caption	Fibonacci Series
5.	Command	Name	Sum of N num
		Caption	Sum of N numbers
6.	Text box	Name	InputNumber
		Text	



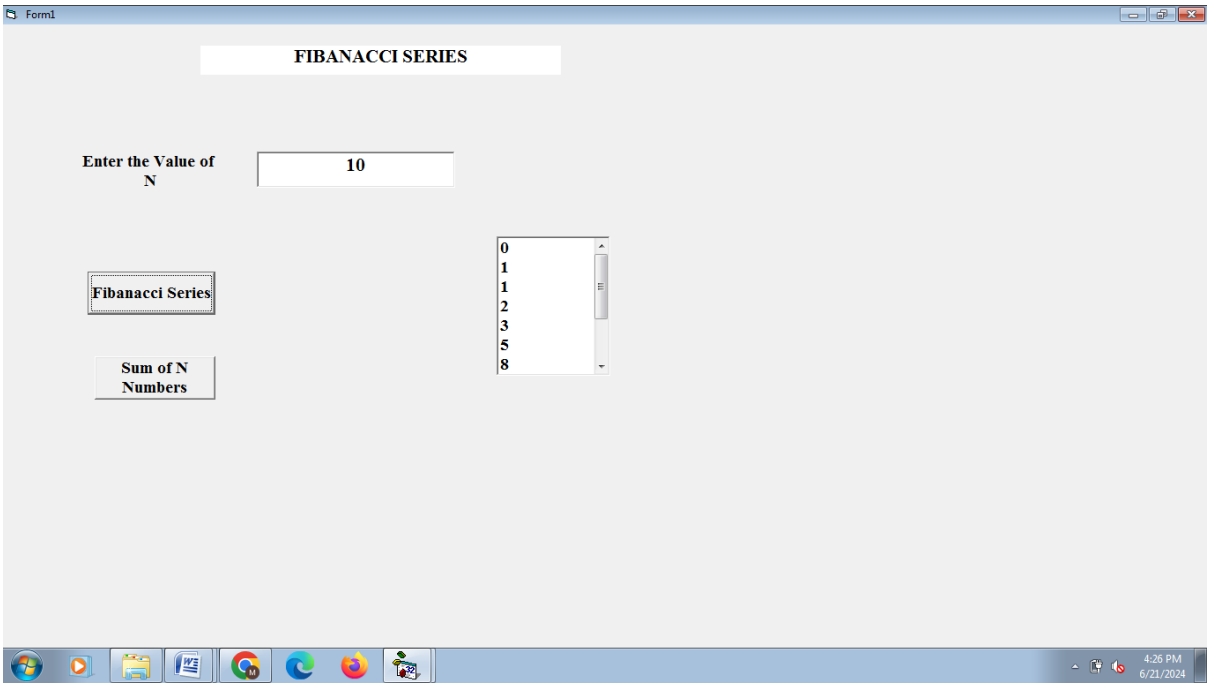
Form Design Window

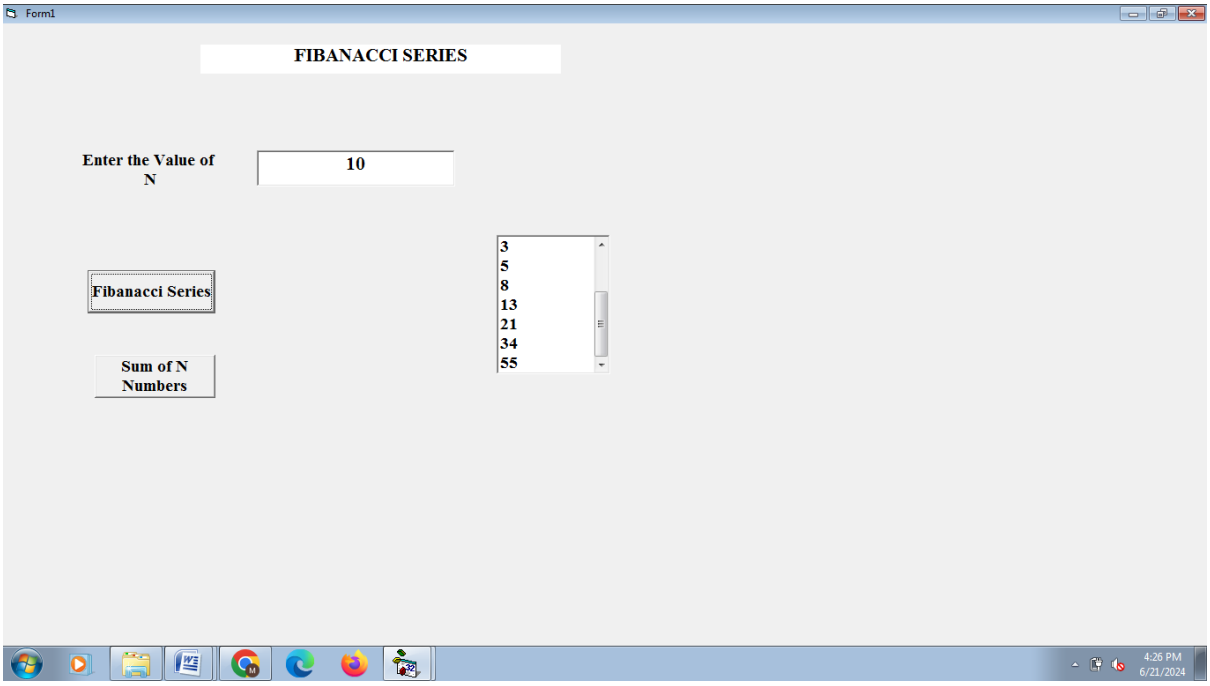
Coding

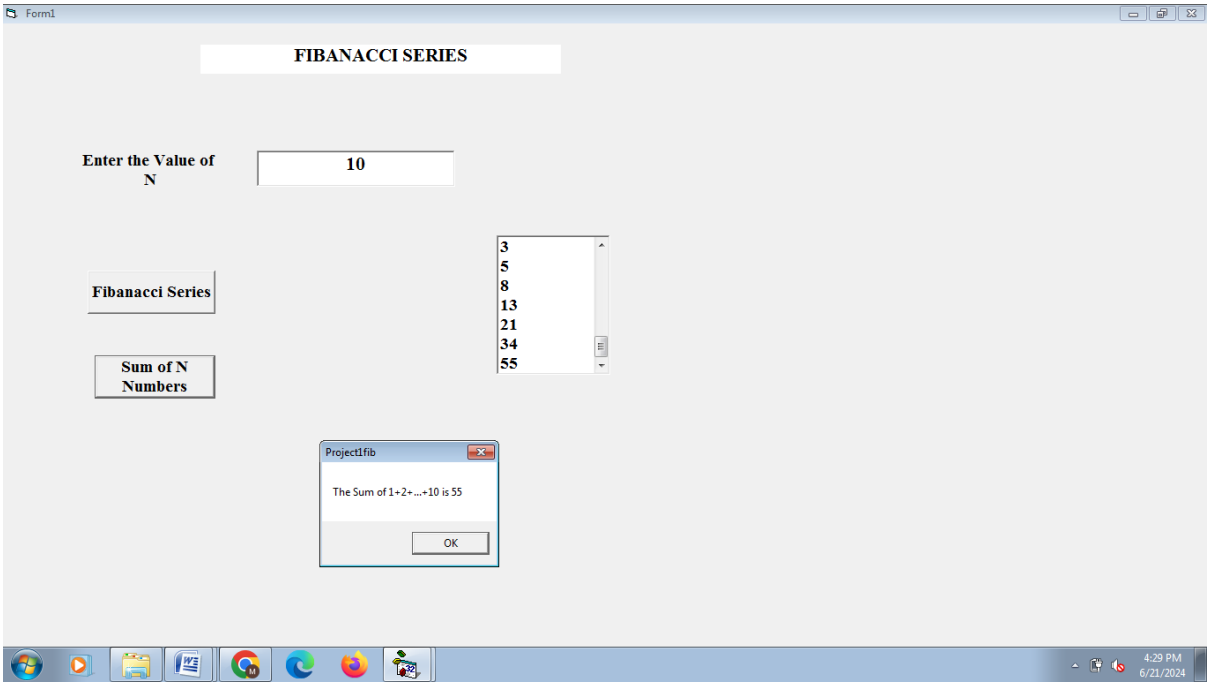
```
Private Sub Fibonacci_Click()
Dim i, n, n1, n2, fib As Integer
n = Val(inputnumber.Text)
n1 = 0
n2 = 1
For i = 0 To n
List1.AddItem fib
fib = n1 + n2
n2 = n1
n1 = fib
Next i
End Sub

Private Sub Sum_Click()
Dim n, i, Sum As Integer
```

```
Sum = 0
n = Val(inputnumber.Text)
For i = 1 To n
Sum = Sum + i
Next i
MsgBox ("The Sum of 1+2+...+" & n & " is " & Sum)
End Sub
```

Output




Form1
FIBANACCI SERIES
Enter the Value of N
10
Fibanacci Series
Sum of N Numbers
3
5
8
13
21
34
55
4:26 PM
6/21/2024


Form1
FIBANACCI SERIES
Enter the Value of N
10
Fibanacci Series
Sum of N Numbers
3
5
8
13
21
34
55
Project1fib
The Sum of 1+2+...+10 is 55
OK
4:29 PM
6/21/2024

ANIMATION USING TIMER

AIM

To write a program to implement animation using timers.

ALGORITHM

STEP-1: Start → All programs → Visual Basic 6.0(displays New (project dialog box)

STEP-2: Select Standard EXE from New project dialog box and click ok button.

STEP-3: New Project opens with the name project1.

STEP-4: Add one image control, Two command buttons and a Timer control.

STEP-5: Change the properties as given below.

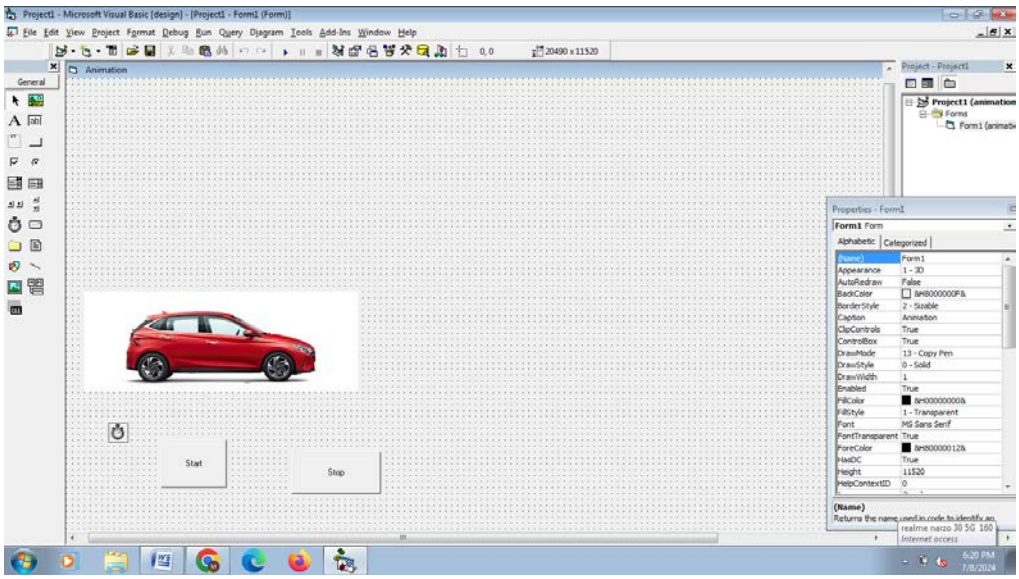
Object	Property	Setting
Form1	Name	Form1
	Caption	Animation
Image	Name	Image1
	Picture	Add image
Command button 1	Name	CmdStart
	Caption	Start
Command button 2	Name	CmdStop
	Caption	Stop
Timer	Name	Timer1
	Interval	100

Step 6: Double click the form to go to Code Window

Step7: Add the following code in the respective event procedure.

Step8: Run the form by clicking Run button on the Standard Toolbar or by pressing 'F5' key.

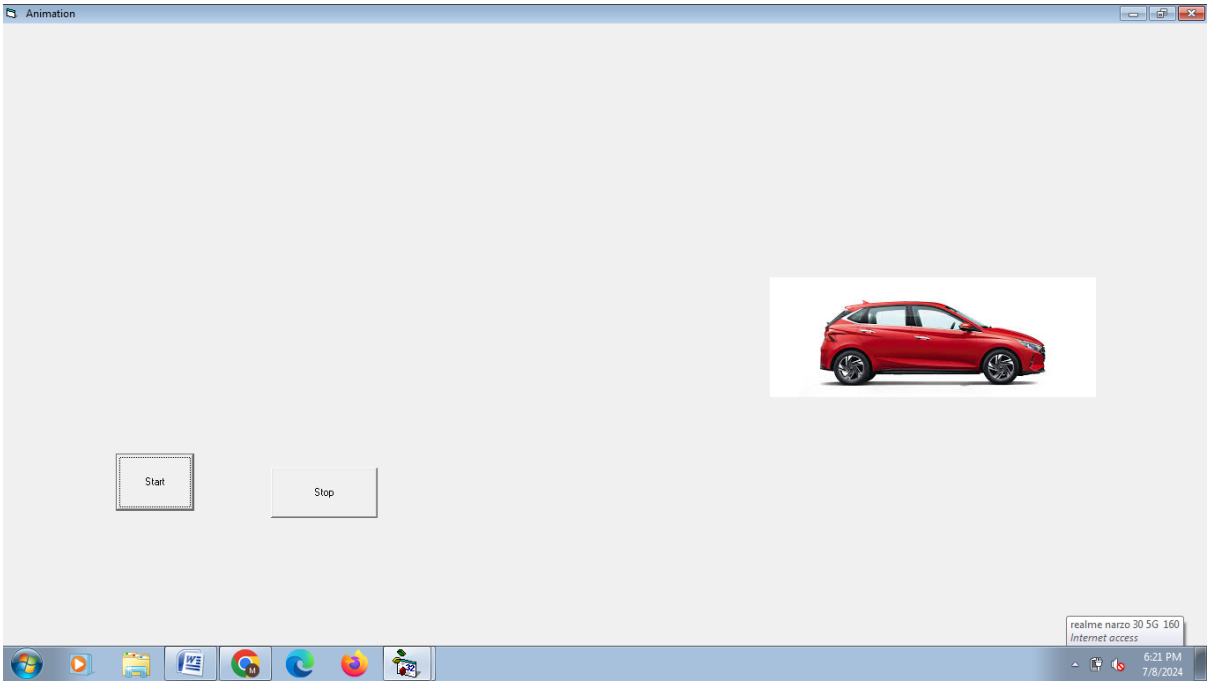
Form Design



Coding

```
Private Sub Form_Load()
Timer1.Enabled = False

End Sub
Private Sub Timer1_Timer()
Image1.Left = Image1.Left + 150
If Image1.Left > 14000 Then
Image1.Left = 0
End If

End Sub
Private Sub CmdStart_Click()
Timer1.Enabled = True
End Sub
Private Sub CmdStop_Click()
Timer1.Enabled = False

End Sub
```

Output


Animation
Start
Stop
realme narzo 30 5G 160
Internet access
6:21 PM
7/8/2024

NUMBER CONVERSION

AIM

To create a simple VB program to accept a number as input and convert them into
1. Binary 2. Octal 3. Hexa-decimal

ALGORITHM

Step 1: Start → All Programs→ Visual Basic 6.0 (displays New Project dialog box)

Step2: Select Standard EXE from New Project dialog box and click OK button.

Step3: New project opens with the name Project 1.

Step4: In Form window add one Frame control, three label controls, 2 text box controls and 5 command buttons.

Step 5: Change the properties as given below:

Object	Property	Setting
Form1	Name	Form1
	Caption	Number Conversion
Frame1	Caption	Decimal
Label1	Caption	Number Conversion
Label2	Caption	Enter Decimal Number
Label3	Caption	Result
Text1	Name	txtInput
	Text	<blank>
Text2	Name	txtOutput
	Text	<blank>
Command Button1	Caption	Binary
	Name	cmdBin
Command Button2	Caption	Octal
	Name	cmdOct
Command Button3	Caption	Hexa
	Name	cmdHexa
Command Button4	Caption	Clear
	Name	cmdClear

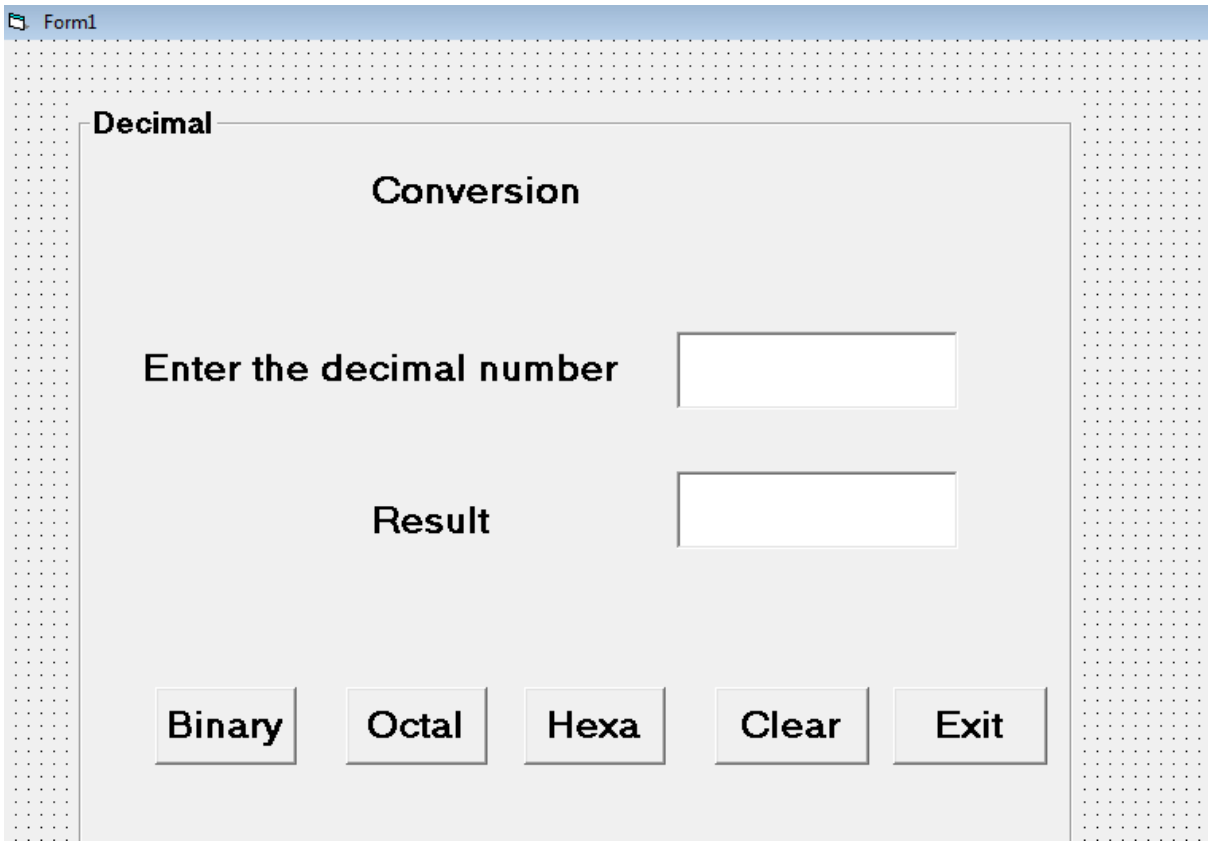
Command Button5	Caption	Exit
	Name	cmdExit

Step 6: Double click the form to go to Code Window

Step7: Add the following code in the respective event procedure.

Step8: Run the form by clicking Run button on the Standard Toolbar or by pressing 'F5' key.

FORM DESIGN



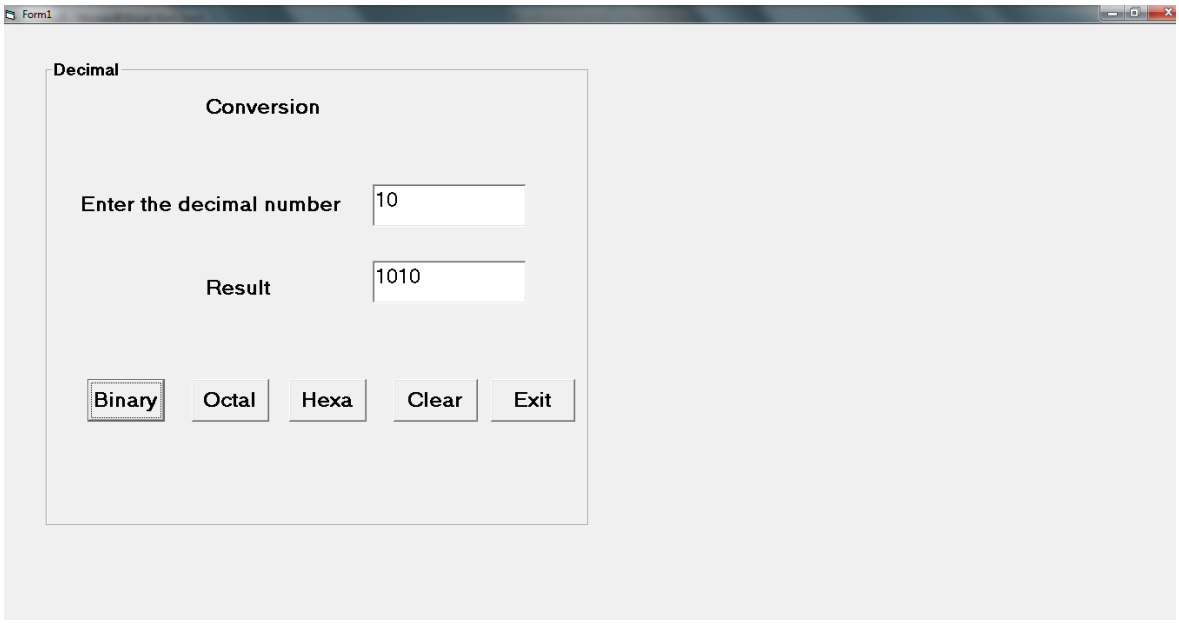
Coding

```
Private Sub CmdBin_Click()
Dim a, r As Single
a = Val(Text1.Text)
While (a > 1)
r = a Mod 2
Text2.Text = r & Text2.Text
a = a / 2
a = Int(a)
```

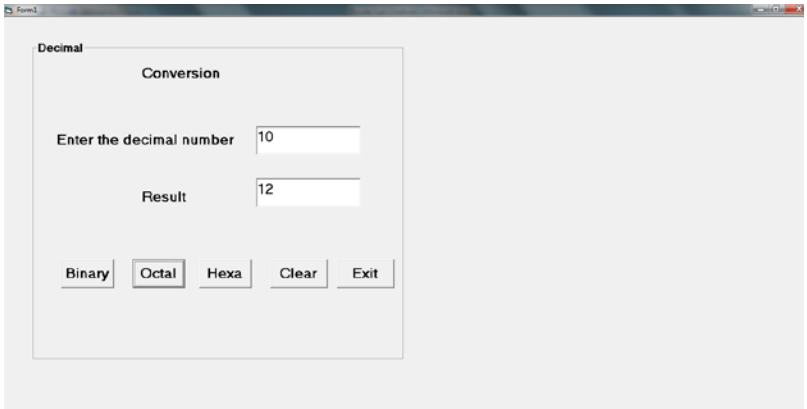
```
Wend
Text2.Text = a & Text2.Text
End Sub
Private Sub CmdOct_Click()
Text2.Text = ""
Text2.Text = Oct(Text1.Text)
End Sub
Private Sub CmdHex_Click()
Text2.Text = ""
Text2.Text = Hex(Text1.Text)
End Sub

Private Sub CmdClear_Click()
Text1.Text = Empty
Text2.Text = Empty
End Sub

Private Sub CmdExit_Click()
End
End Sub
```

OUTPUT

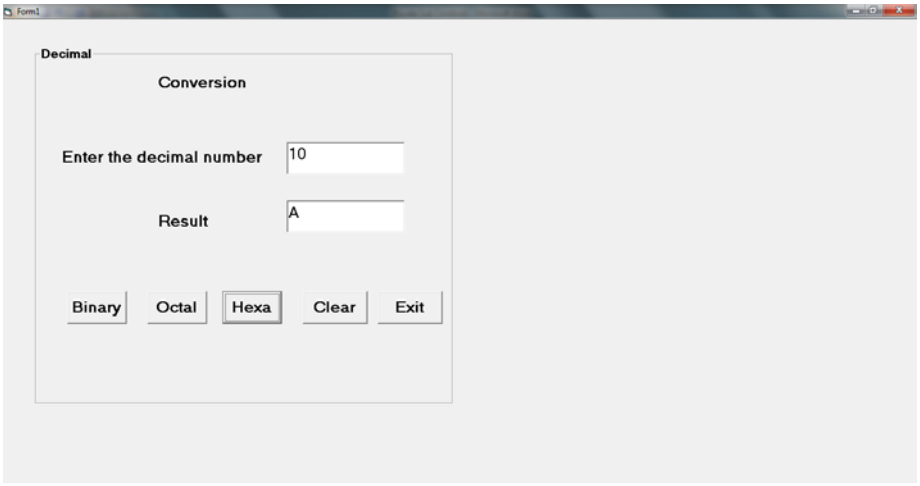
Binary



Octal



Hexa-decimal



MENU DRIVEN USING MDI FORM

AIM

To create a simple VB program to develop the menu driven program.

ALGORITHM

Step 1: Start → All Programs→ Visual Basic 6.0 (displays New Project dialog box)

Step2: Select Standard EXE from New Project dialog box and click OK button.

Step3: New project opens with the name Project 1.

Step4: Select Project → Add MDI Form, to add MDI form.

Step5: Select Project → Add Form to add a new form. Likewise add 3 ordinary forms in the project.

Step 5: Change the properties as given below:

Object	Property	Setting
Form1	Name	Form1
	Caption	Form1
	MDIChild	True
Form2	Name	Form2
	Caption	Form2
	MDIChild	True
Form3	Name	Form3
	Caption	Form3
	MDIChild	True

Step 5: Add Menu items in the MDI form as given below by selecting Tools→ Menu Editor

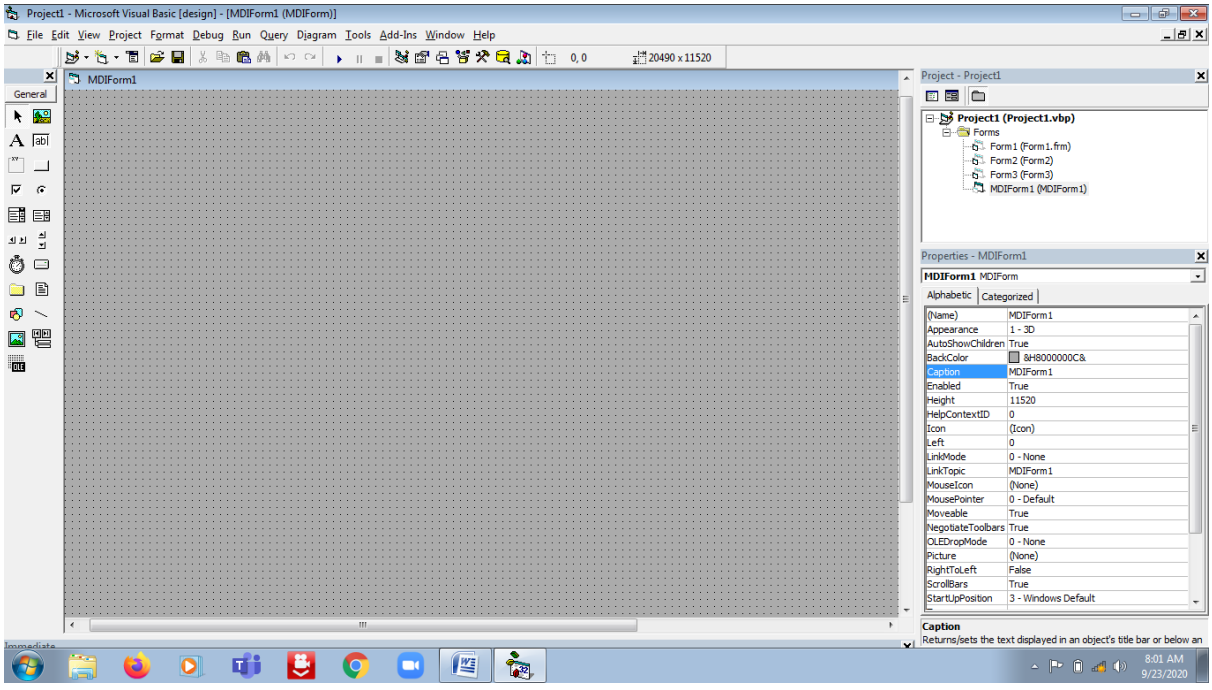
Menus→ Submenus ↓	Window	Color	Exit End
	Show Form1 Form2 Form3	Red	
	Cascade	Green	
	Horizontal	Blue	
	Vertical		

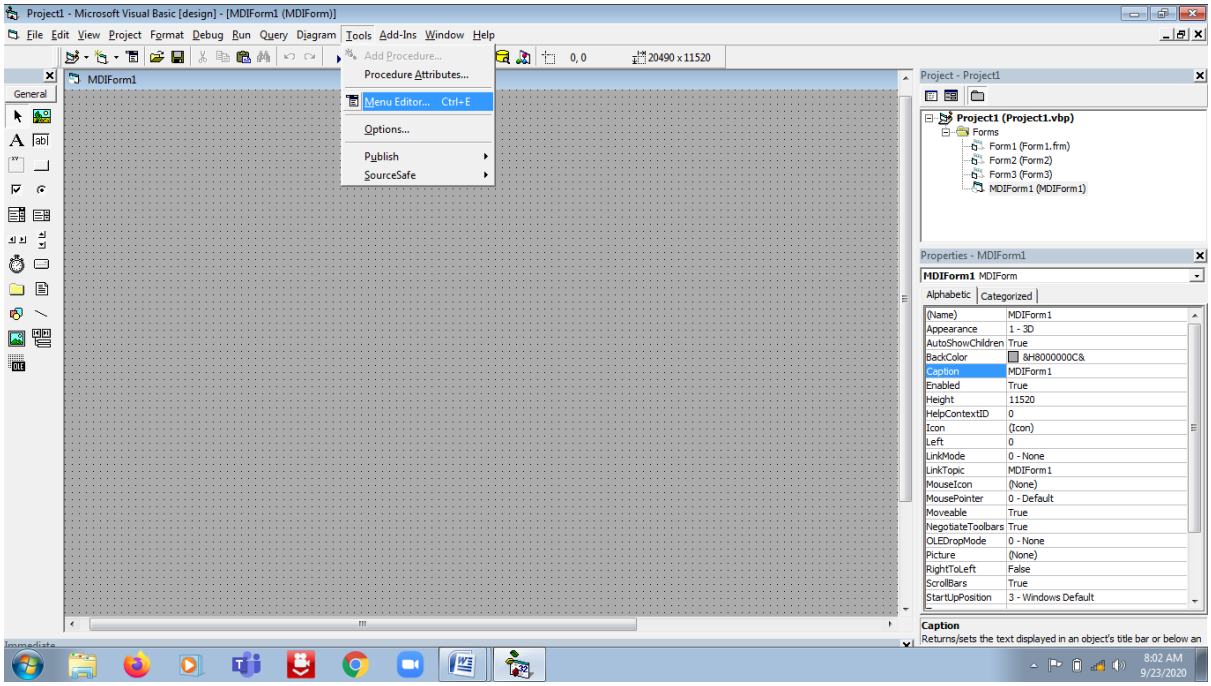
Step 6: Click on the menu item in the MDI form to add code.

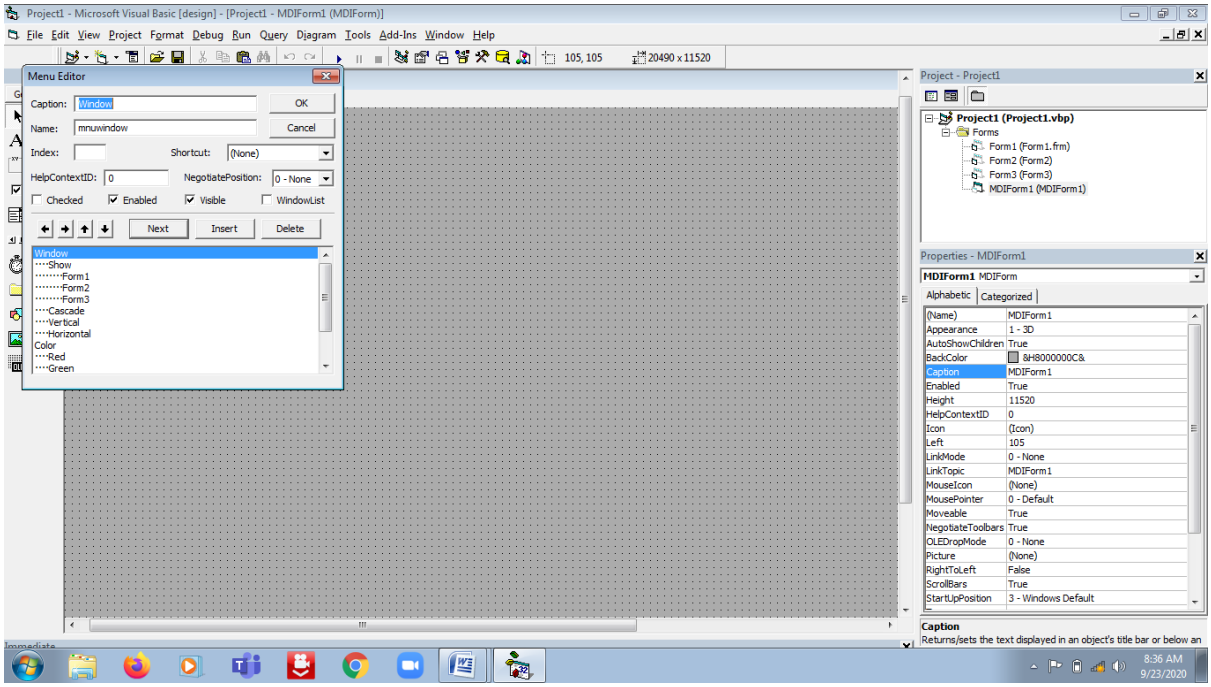
Step7: Add the following code in the respective menu item event procedure.

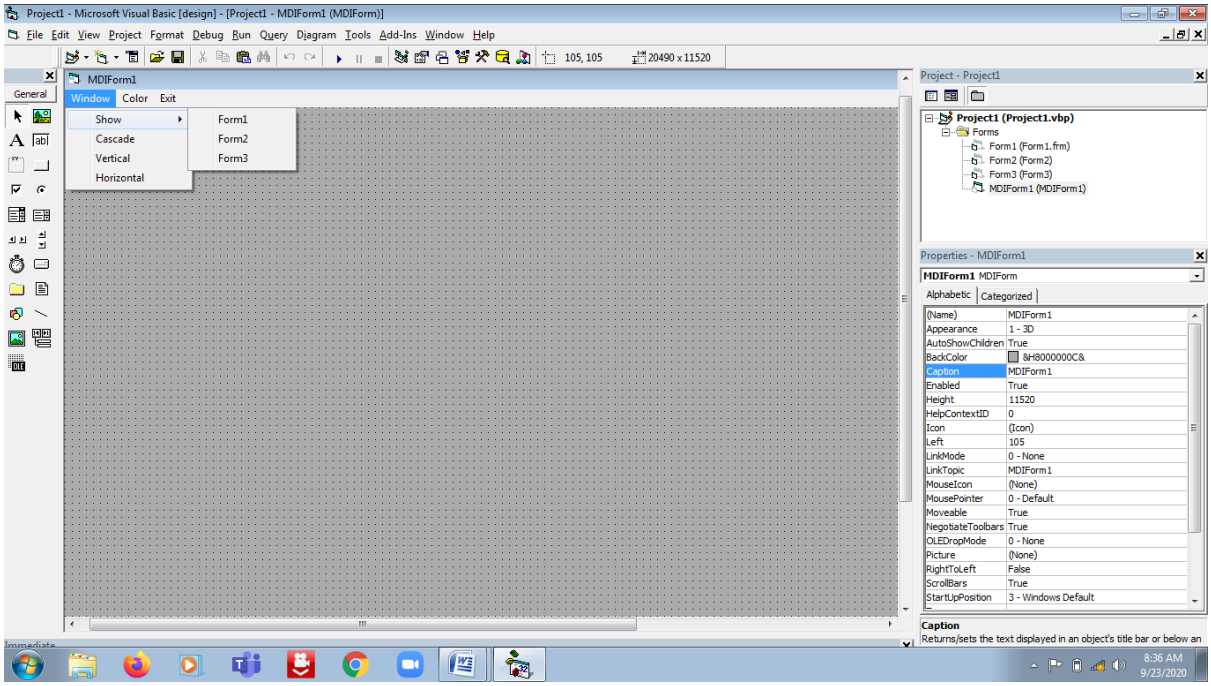
Step8: Run the form by clicking Run button on the Standard Toolbar or by pressing ‘F5’ key.

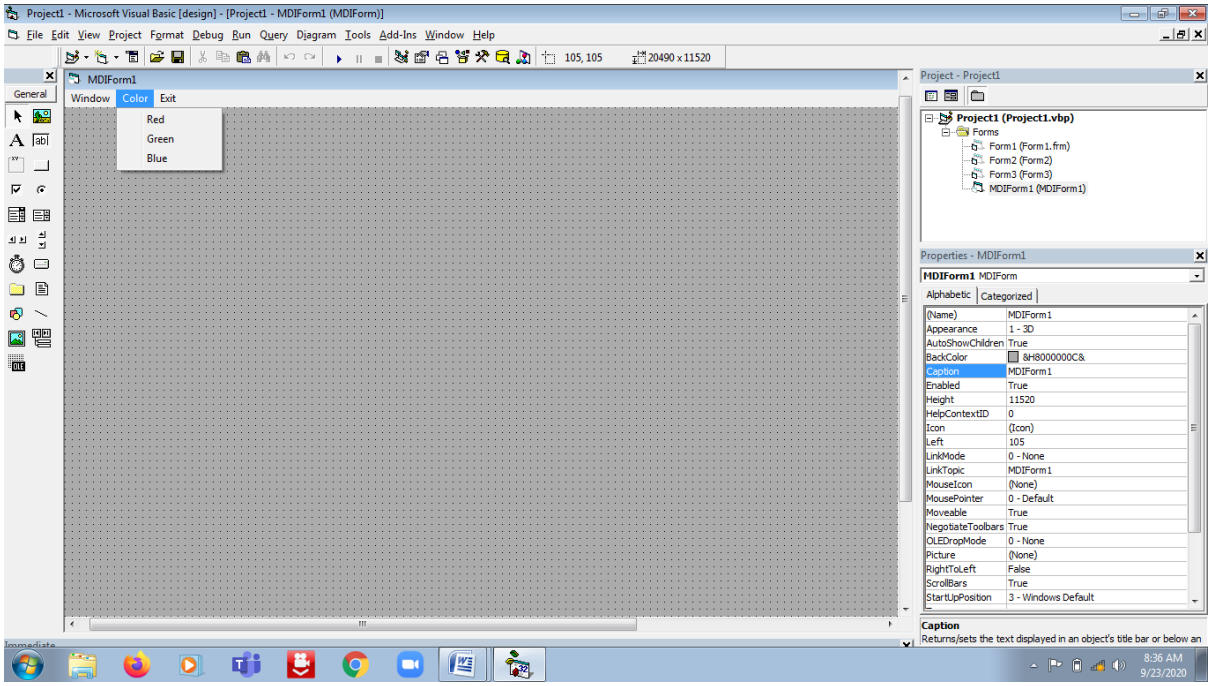
FORM DESIGN




Project1 - Microsoft Visual Basic [design] - [MDIForm1 (MDIForm)]
File Edit View Project Format Debug Run Query Diagram Tools Add-Ins Window Help
Add Procedure...
Procedure Attributes...
Menu Editor... Ctrl+E
Options...
Publish
SourceSafe
0, 0
20490 x 11520
MDIForm1
General
Project - Project1
Project1 (Project1.vbp)
Forms
Form1 (Form1.frm)
Form2 (Form2)
Form3 (Form3)
MDIForm1 (MDIForm1)
Properties - MDIForm1
MDIForm1 MDIForm
Alphabetic Categorized
(Name) MDIForm1
Appearance 1 - 3D
AutoShowChildren True
BackColor &H8000000C&
Caption MDIForm1
Enabled True
Height 11520
HelpContextID 0
Icon (Icon)
Left 0
LinkMode 0 - None
LinkTopic MDIForm1
MouseIcon (None)
MousePointer 0 - Default
Moveable True
NegotiateToolbars True
OLEDropMode 0 - None
Picture (None)
RightToLeft False
ScrollBars True
StartUpPosition 3 - Windows Default
Caption
Returns/sets the text displayed in an object's title bar or below an
8:02 AM
9/23/2020


Project1 - Microsoft Visual Basic [design] - [Project1 - MDIForm1 (MDIForm)]
File Edit View Project Format Debug Run Query Diagram Tools Add-Ins Window Help
105, 105
20490 x 11520
Menu Editor
Caption: Window
OK
Name: mnuwindow
Cancel
Index:
Shortcut: (None)
HelpContextID: 0
NegotiatePosition: 0 - None
Checked Enabled Visible WindowList
Next Insert Delete
Window
....Show
........Form1
........Form2
........Form3
....Cascade
....Vertical
....Horizontal
Color
....Red
....Green
Project - Project1
Project1 (Project1.vbp)
Forms
Form1 (Form1.frm)
Form2 (Form2)
Form3 (Form3)
MDIForm1 (MDIForm1)
Properties - MDIForm1
MDIForm1 MDIForm
Alphabetic Categorized
(Name) MDIForm1
Appearance 1 - 3D
AutoShowChildren True
BackColor &H8000000C&
Caption MDIForm1
Enabled True
Height 11520
HelpContextID 0
Icon (Icon)
Left 105
LinkMode 0 - None
LinkTopic MDIForm1
MouseIcon (None)
MousePointer 0 - Default
Moveable True
NegotiateToolbars True
OLEDropMode 0 - None
Picture (None)
RightToLeft False
ScrollBars True
StartUpPosition 3 - Windows Default
Caption
Returns/sets the text displayed in an object's title bar or below an
8:36 AM
9/23/2020





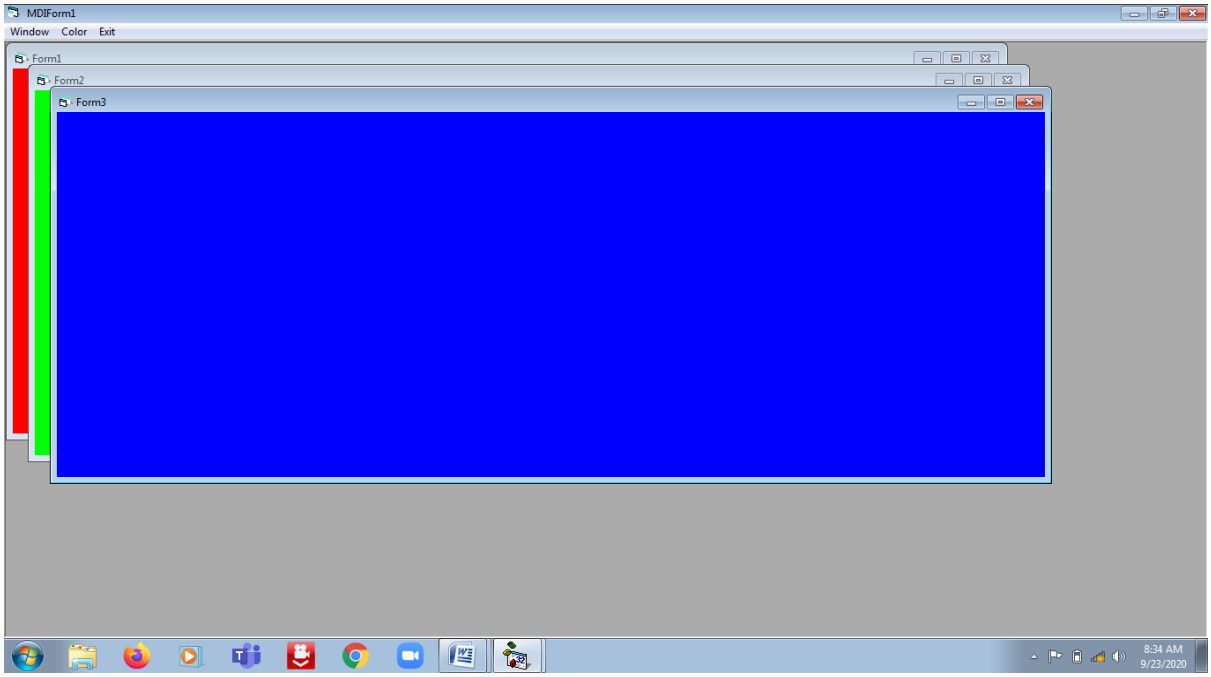

```
Private Sub mnublue_Click()
MDIForm1.ActiveForm.BackColor = vbBlue
End Sub
Private Sub mnucascade_Click()
MDIForm1.Arrange vbCascade
```

```
End Sub

Private Sub mnuend_Click()
End
End Sub

Private Sub mnuform1_Click()
Form1.Show
End Sub

Private Sub mnuform2_Click()
Form2.Show
End Sub

Private Sub mnuform3_Click()
Form3.Show

End Sub

Private Sub mnugreen_Click()
MDIForm1.ActiveForm.BackColor = vbGreen
End Sub

Private Sub mnuhorizontal_Click()
MDIForm1.Arrange vbTileHorizontal
End Sub
Private Sub mnured_Click()
MDIForm1.ActiveForm.BackColor = vbRed
End Sub

Private Sub mnuvertical_Click()
MDIForm1.Arrange vbVertical
```

End Sub

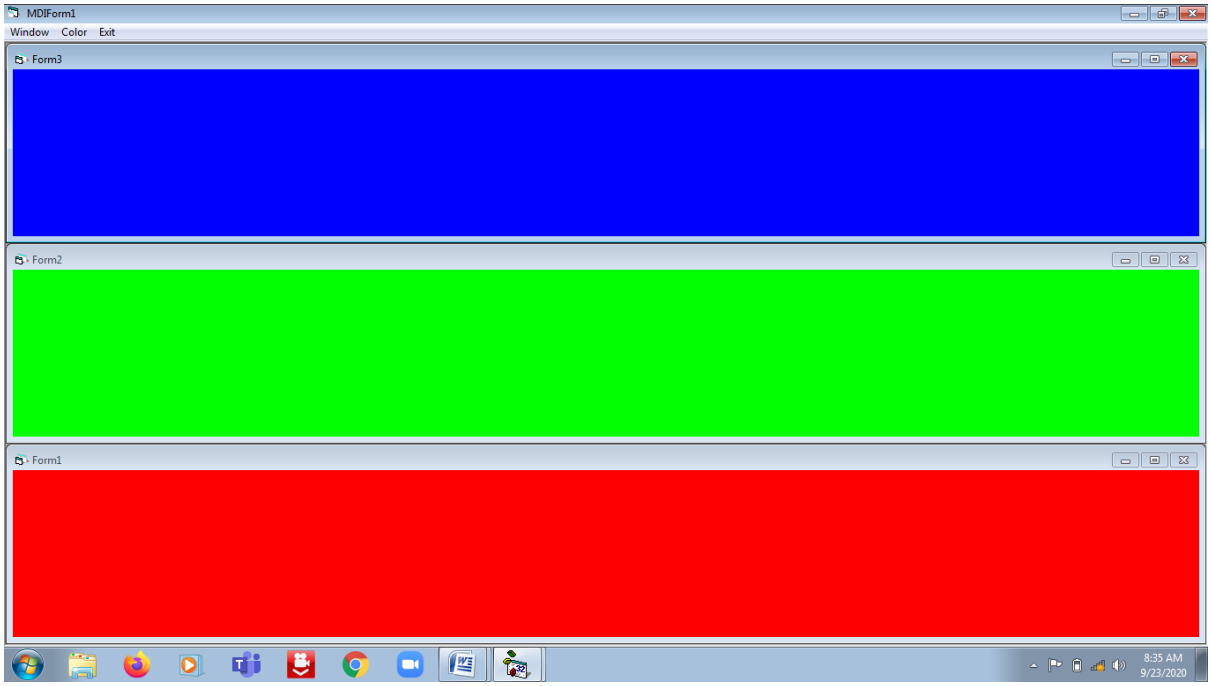
OUTPUT

Cascade



Vertical

Horizontal


MDIForm1
Window Color Exit
Form3
Form2
Form1
8:35 AM
9/23/2020

DRIVE LIST BOX, DIRECTORY LIST BOX, FILE LIST BOX

AIM

To create a simple VB program with drive list box ,directory list box and file list box to open , exit and save files using rich text box.

ALGORITHM

STEP-1: Start → All programs →Visual Basic 6.0(displays New project dialog box)

STEP-2: Select Standard EXE from New project dialog box and click ok button.

STEP-3: New Project opens with the name project1.

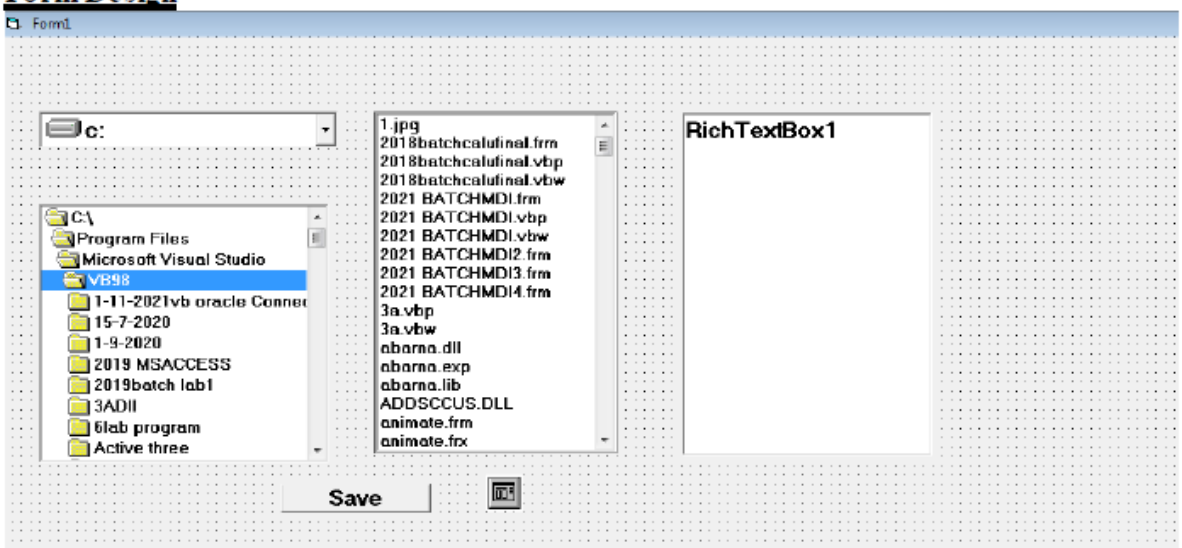
STEP-4: Add drive, dir and file listbox control.

STEP-5: To add rich textbox in Toolbox select project→components from the dialog box selected Microsoft Rich Textbox control 6.0 and click Ok. Add Rich text box control, one command button in the form window.

STEP-6: Change the properties as given below.

Object	Property	Setting
Form1	Name	Form1
	Caption	Drive list box, Directory list box, File list box
Drive list box	Name	Drive list box1
Directory List box	Name	Directory list box1
File list box	Name	File list box1
RichTextBox	Name	RichTextBox1
	Text	<blank>
Common Dialog control	Name	Common Dialog1
Command Button1	Name	cmdSave
	Caption	Save
Command Button1	Name	cmdExit
	Caption	Exit

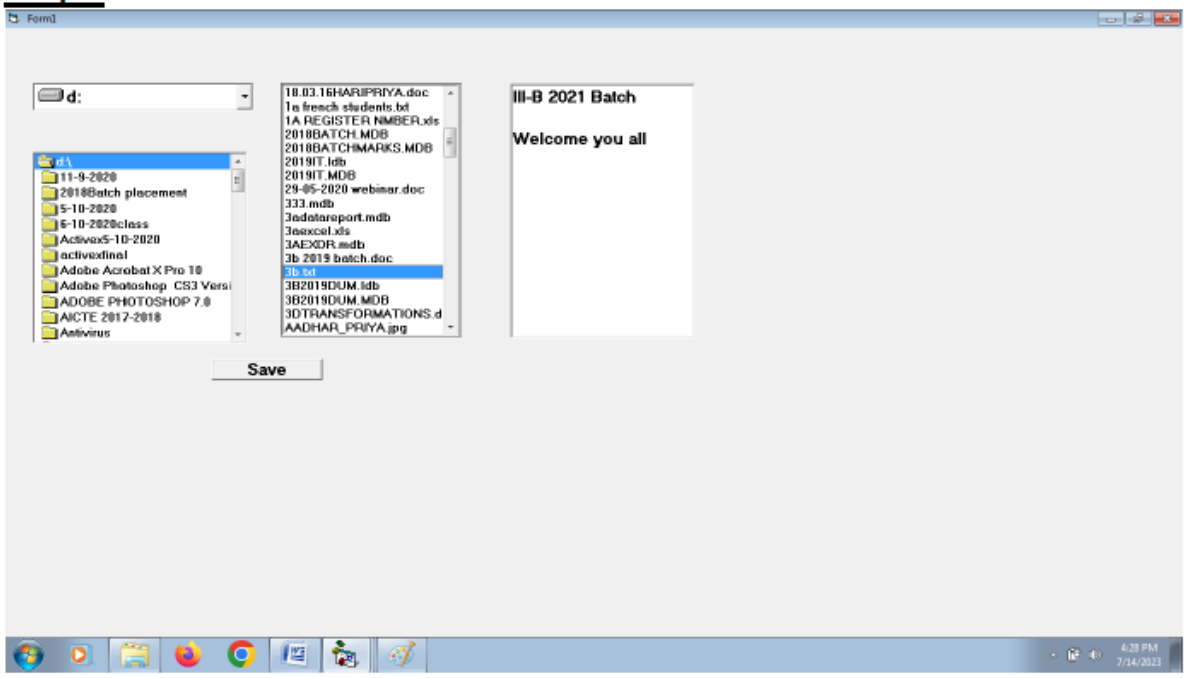
Form Design



Coding

```
Dim filename As String

Private Sub cmdSave_Click()

CommonDialog1.ShowSave

FileName = CommonDialog1.FileName

RichTextBox1.SaveFile FileName, rtfText

End Sub

Private Sub Dir1_Change()

File1.Path = Dir1.Path

End Sub

Private Sub Drive1_Change()

Dir1.Path = Drive1.Drive

End Sub

Private Sub File1_Click()

RichTextBox1.FileName = File1.Path & "\" & File1.FileName

End Sub
```

Output



COMMON DIALOG CONTROL

AIM

To design a Visual Basic Program to illustrate Common Dialog Control and to open, edit and save text file.

ALGORITHM:

Step 1: Start → All Programs→ Visual Basic 6.0 (displays New Project dialog box)

Step2: Select Standard EXE from New Project dialog box and click OK button.

Step3: New project opens with the name Project 1.

Step4: In the Form window add following controls and change the properties given below.

Step 5: Add Common Dialog Control in form. (By default this control will not be available in the Toolbox. To add this control in tool box Select Project→ Components. From the Components dialog box displayed, select the option Microsoft Common Dialog Control 6.0 and turn on the check box)

Step 6: Add Rich Text Box Control in form. (By default this control will not be available in the Toolbox. To add this control in tool box Select Project→ Components. From the Components dialog box displayed, select the option Microsoft RichTextBox Control 6.0 and turn on the check box)

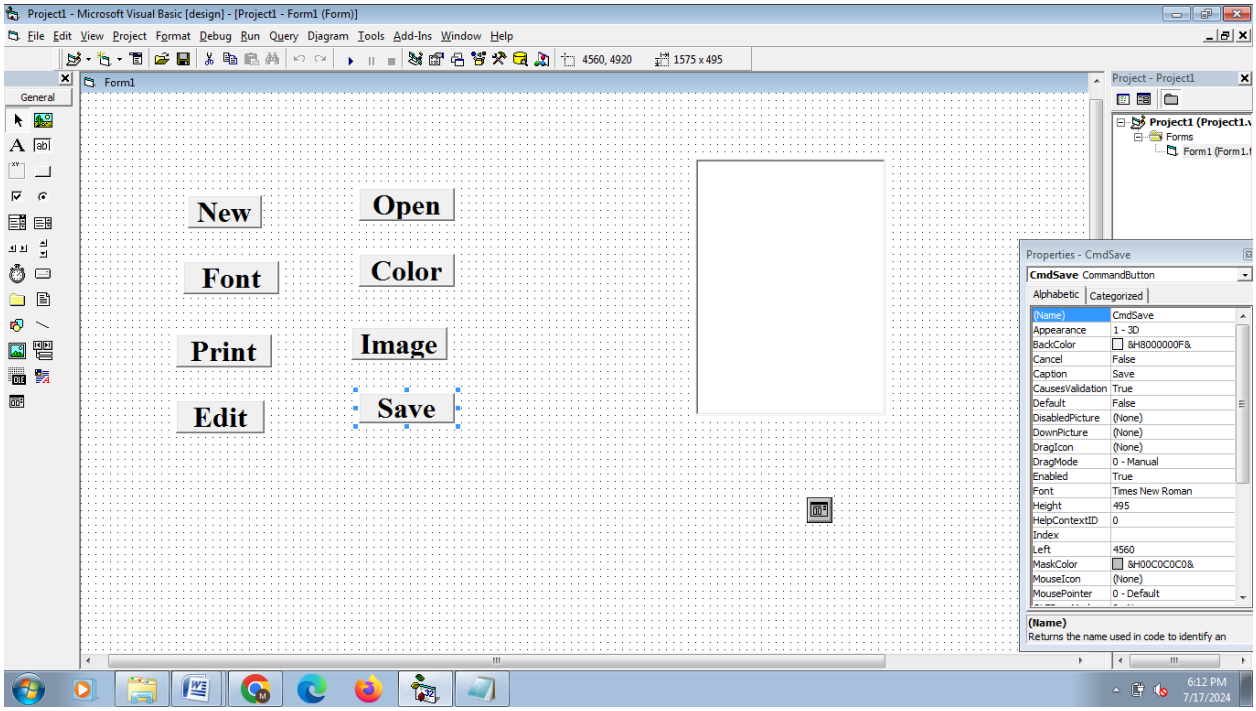
Object	Property	Setting
Form1	Name	Form1
	Caption	Common Dialog Control
CommonDialog1	Name	CommonDialog1
RichTextBox1	Name	RichTextBox1
	Text	Blank
Command button 1	Name	CmdNew
	Caption	New
Command button 2	Name	CmdOpen
	Caption	Open
Command button 3	Name	CmdFont
	Caption	Font
Command button 4	Name	CmdColor
	Caption	Color
Command button 5	Name	CmdPrint

	Caption	Print
Command button 6	Name	CmdImage
	Caption	Image
Command button 7	Name	CmdEdit
	Caption	Edit
Command button 8	Name	CmdSave
	Caption	Save

Step7: Add the following code in the respective event procedure.

Step8: Run the form by clicking Run button on the Standard Toolbar or by pressing ‘F5’ key.

FORM DESIGN:



Coding

Private Sub CmdNew_Click()

RichTextBox1.Text = ""

RichTextBox1.BackColor = &HFFFFFF

End Sub

```
Private Sub CmdOpen_Click()
CommonDialog1.ShowOpen
RichTextBox1.LoadFile CommonDialog1.FileName
End Sub
Private Sub CmdFont_Click()
CommonDialog1.Flags = &H3 Or &H100
CommonDialog1.ShowFont
RichTextBox1.SelBold = CommonDialog1.FontBold
RichTextBox1.SelColor = CommonDialog1.Color
RichTextBox1.SelUnderline = CommonDialog1.FontUnderline
RichTextBox1.SelFontName = CommonDialog1.FontName
RichTextBox1.SelFontSize = CommonDialog1.FontSize
RichTextBox1.SelItalic = CommonDialog1.FontItalic
RichTextBox1.SelStrikeThru = CommonDialog1.FontStrikethru
End Sub
Private Sub Cmdcolor_Click()
CommonDialog1.ShowColor
RichTextBox1.BackColor = CommonDialog1.Color
End Sub
Private Sub CmdPrint_Click()
'RichTextBox1.SelPrint Printer.hDC
‘Print dialog box is Run only printer is avilable
End Sub
Private Sub CmdImage_Click()
CommonDialog1.ShowOpen
```

RichTextBox1.OLEObjects.Add , , CommonDialog1.FileName

End Sub

Private Sub CmdEdit_Click()

RichTextBox1.SetFocus

End Sub

Private Sub CmdSave_Click()

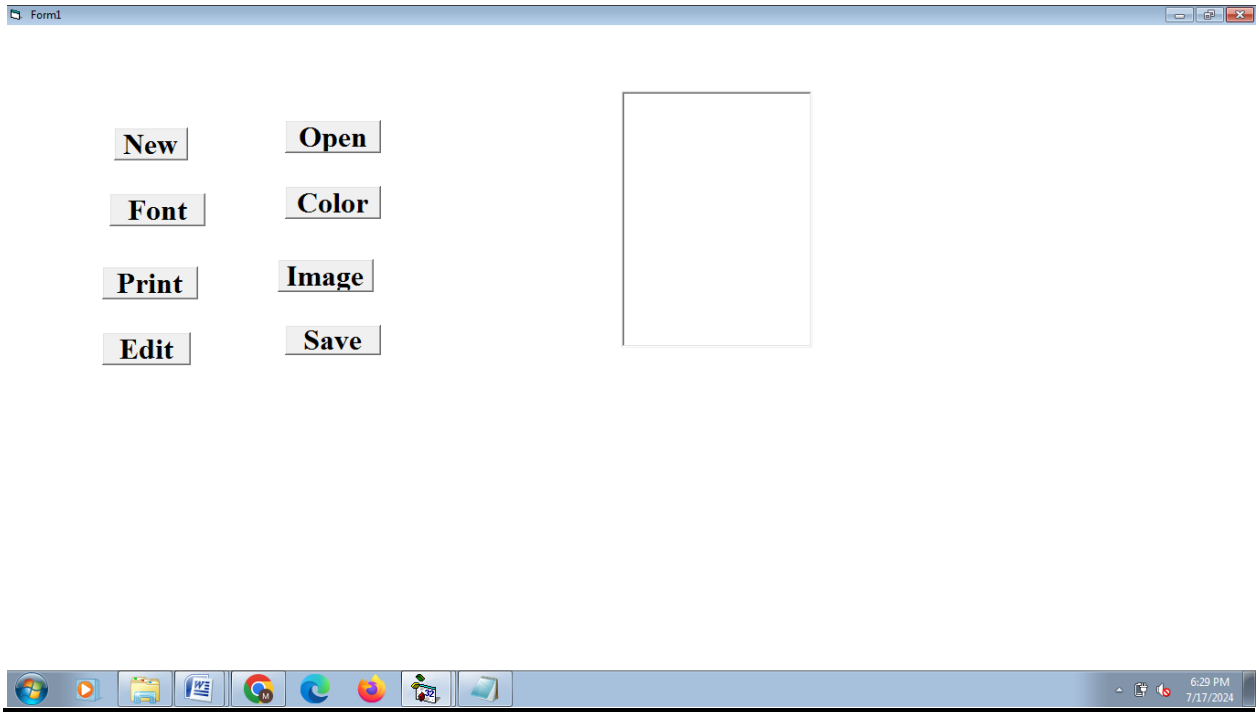
CommonDialog1.ShowSave

RichTextBox1.SaveFile CommonDialog1.FileName

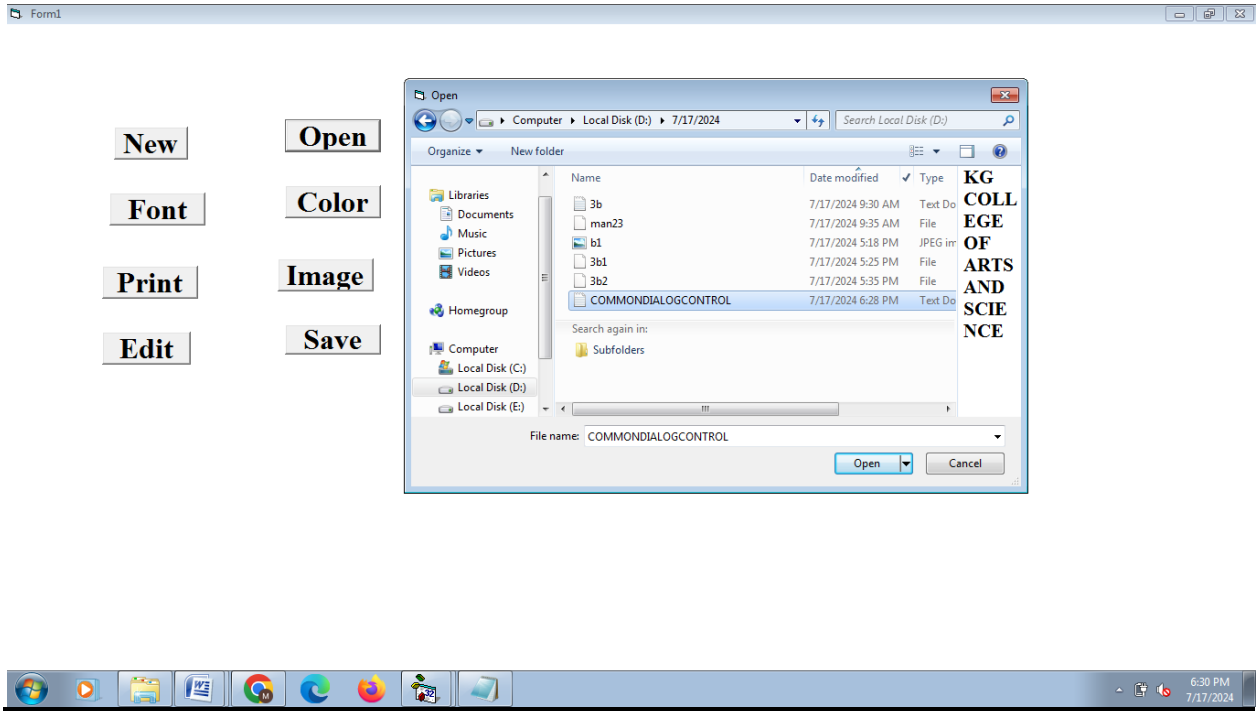
End Sub

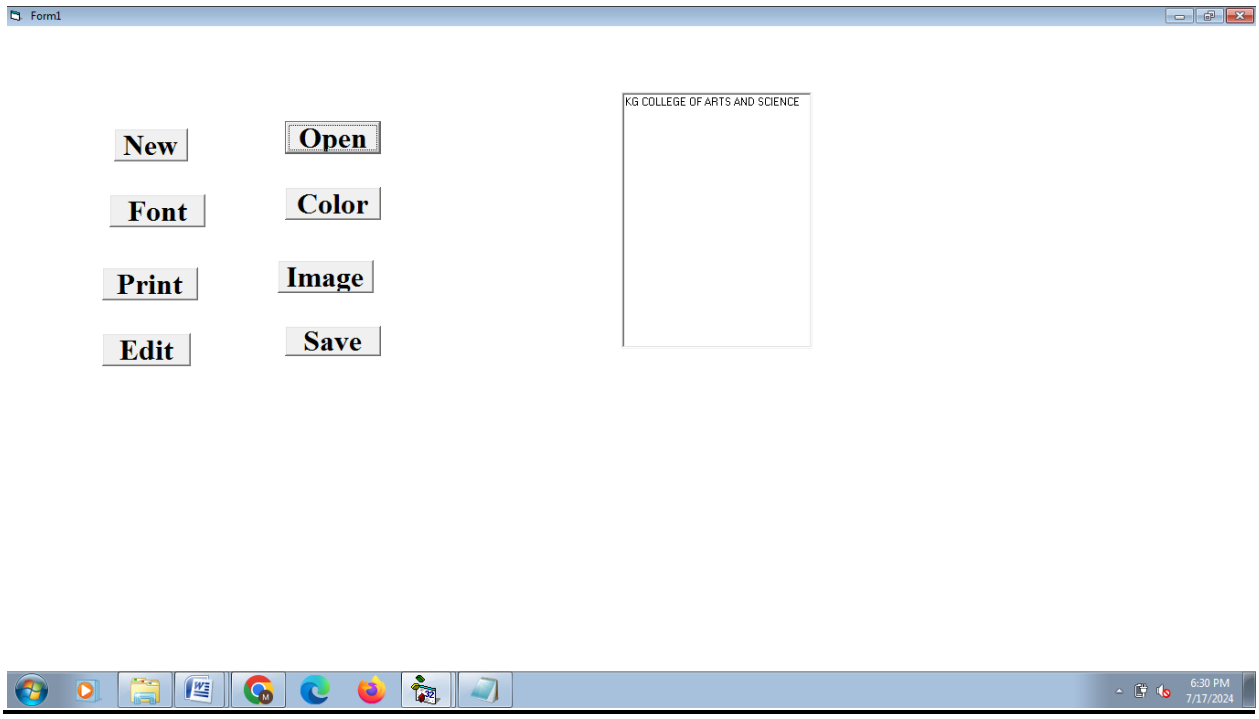
Outputs

New

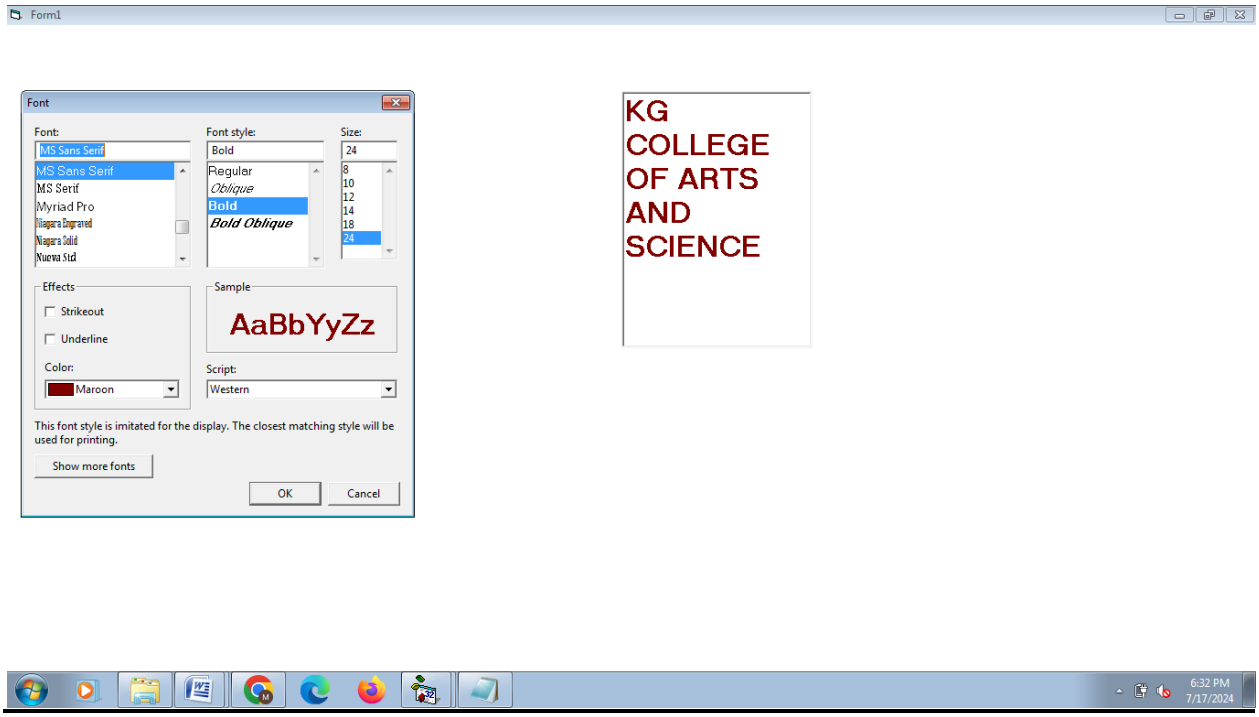


Open

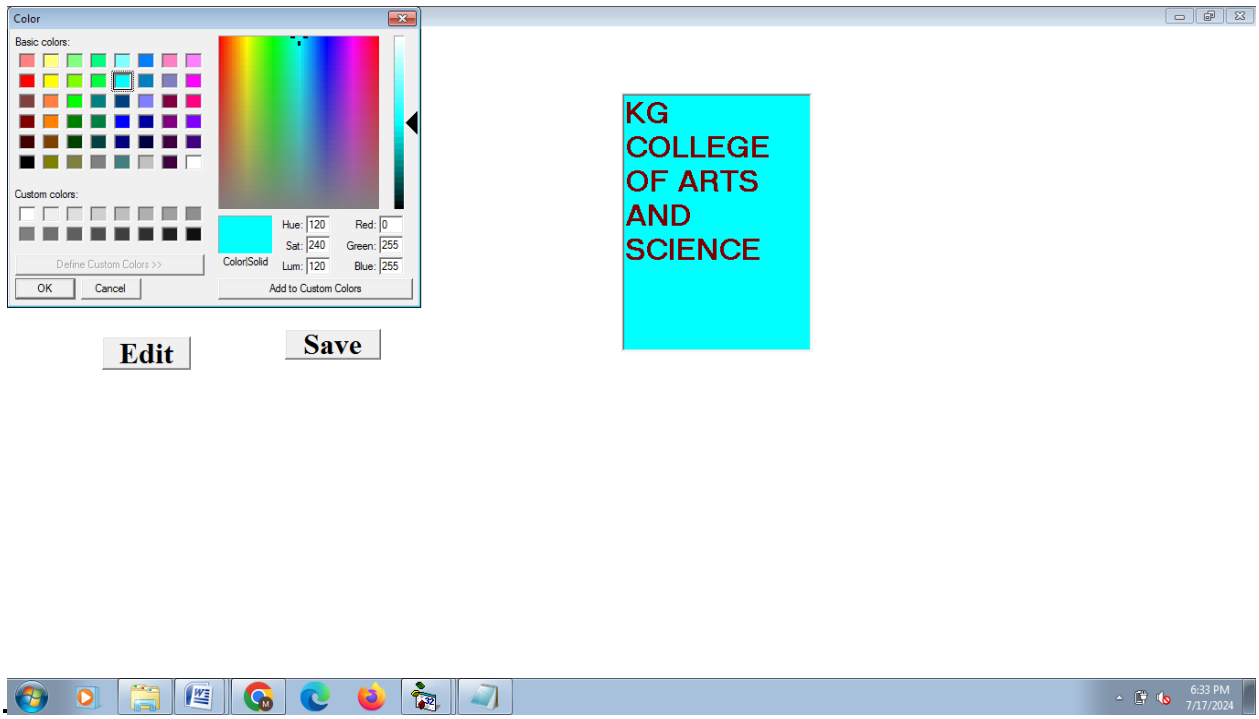

Form1
New
Open
Font
Color
Print
Image
Edit
Save
Open
Computer ▸ Local Disk (D:) ▸ 7/17/2024
Search Local Disk (D:)
Organize
New folder
Libraries
Documents
Music
Pictures
Videos
Homegroup
Computer
Local Disk (C:)
Local Disk (D:)
Local Disk (E:)
Name
Date modified
Type
3b
man23
b1
3b1
3b2
COMMONDIALOGCONTROL
7/17/2024 9:30 AM
7/17/2024 9:35 AM
7/17/2024 5:18 PM
7/17/2024 5:25 PM
7/17/2024 5:35 PM
7/17/2024 6:28 PM
Search again in:
Subfolders
File name: COMMONDIALOGCONTROL
Open
Cancel
KG COLLEGE OF ARTS AND SCIENCE
6:30 PM
7/17/2024


Form1
New
Open
Font
Color
Print
Image
Edit
Save
KG COLLEGE OF ARTS AND SCIENCE
6:30 PM
7/17/2024

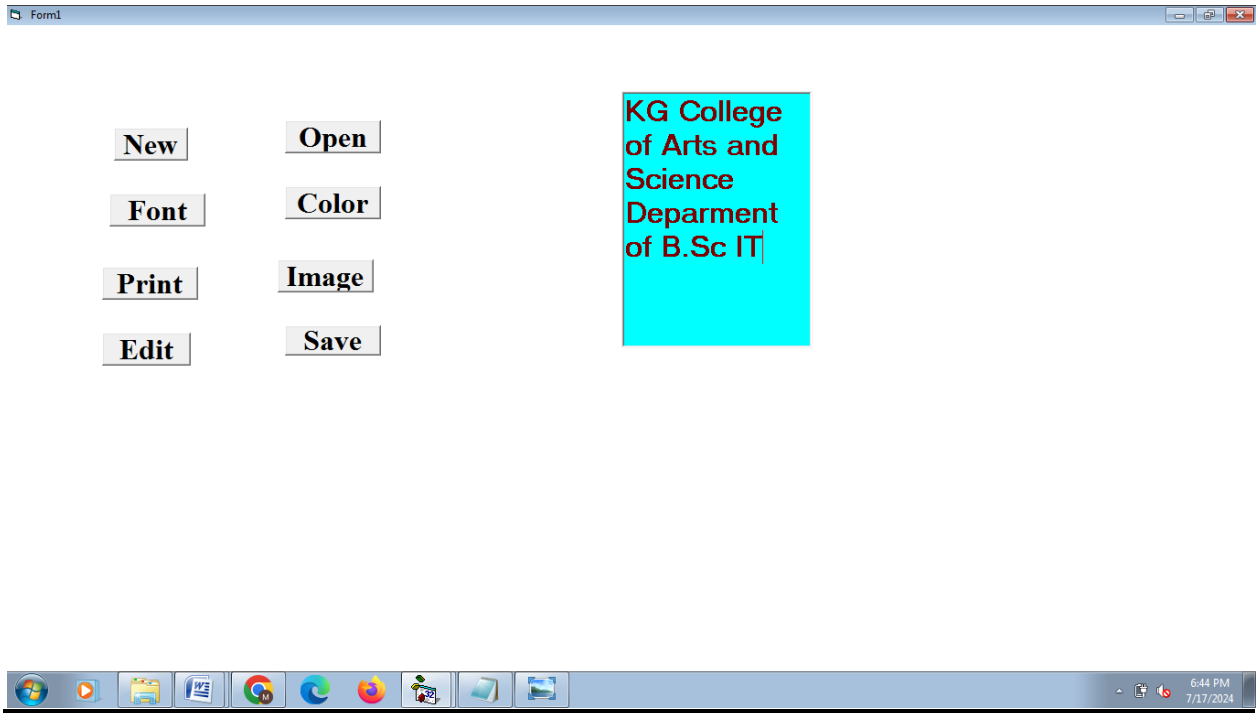
Font


Form1
Font
Font:
MS Sans Serif
MS Sans Serif
MS Serif
Myriad Pro
Niagara Engraved
Niagara Solid
Nueva Std
Font style:
Bold
Regular
Oblique
Bold
Bold Oblique
Size:
24
8
10
12
14
18
24
Effects
Strikeout
Underline
Color:
Maroon
Sample
AaBbYyZz
Script:
Western
This font style is imitated for the display. The closest matching style will be used for printing.
Show more fonts
OK
Cancel
KG
COLLEGE
OF ARTS
AND
SCIENCE
6:32 PM
7/17/2024

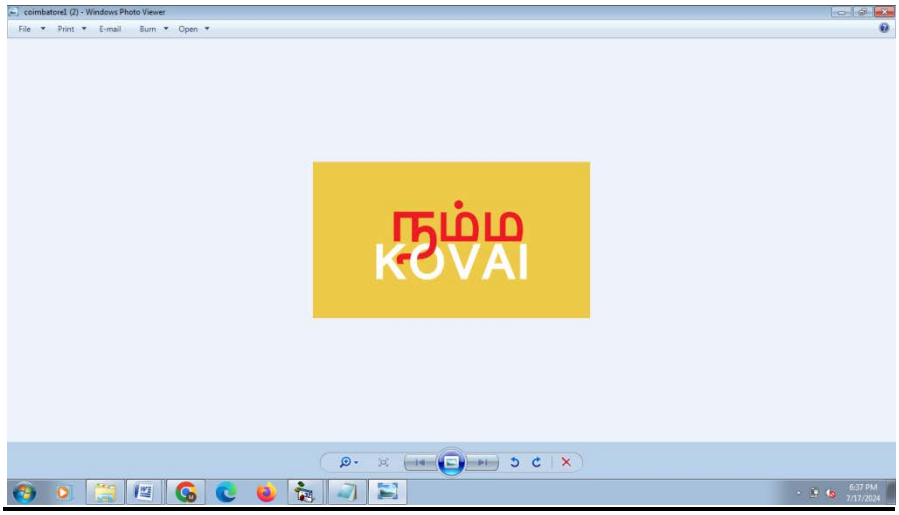
Color


Color
Basic colors:
Custom colors:
Define Custom Colors >>
OK
Cancel
Add to Custom Colors
Hue: 120
Sat: 240
Lum: 120
Red: 0
Green: 255
Blue: 255
ColorSolid
Edit
Save
KG
COLLEGE
OF ARTS
AND
SCIENCE
6:33 PM
7/17/2024

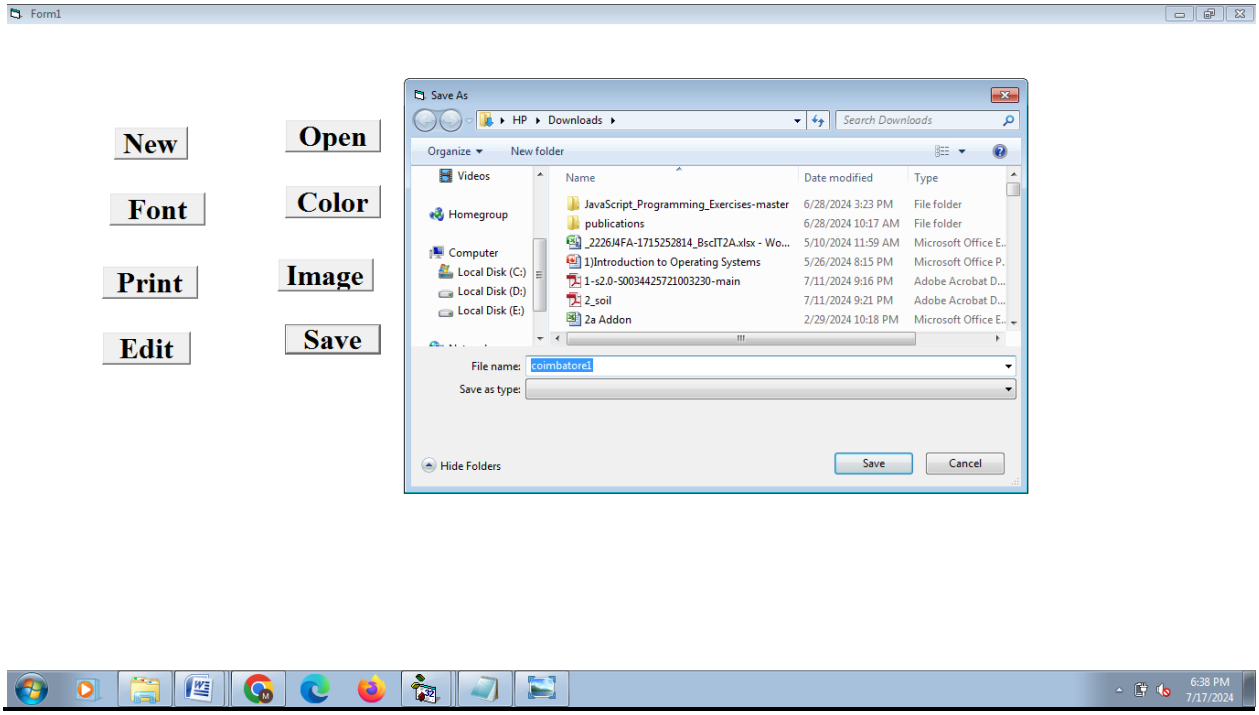
Edit


Form1
New
Open
Font
Color
Print
Image
Edit
Save
KG College of Arts and Science Deparment of B.Sc IT
6:44 PM
7/17/2024

Image


coimbatore1 (2) - Windows Photo Viewer
File
Print
E-mail
Burn
Open
KOVAI
6:37 PM
7/17/2024

Save


Form1
New
Open
Font
Color
Print
Image
Edit
Save
Save As
HP ▸ Downloads ▸
Search Downloads
Organize
New folder
Videos
Homegroup
Computer
Local Disk (C:)
Local Disk (D:)
Local Disk (E:)
Name
Date modified
Type
JavaScript_Programming_Exercises-master 6/28/2024 3:23 PM File folder
publications 6/28/2024 10:17 AM File folder
_2226J4FA-1715252814_BscIT2A.xlsx - Wo... 5/10/2024 11:59 AM Microsoft Office E...
1)Introduction to Operating Systems 5/26/2024 8:15 PM Microsoft Office P...
1-s2.0-S0034425721003230-main 7/11/2024 9:16 PM Adobe Acrobat D...
2_soil 7/11/2024 9:21 PM Adobe Acrobat D...
2a Addon 2/29/2024 10:18 PM Microsoft Office E...
File name: coimbatore1
Save as type:
Hide Folders
Save
Cancel
6:38 PM
7/17/2024

AIM:

To create a simple Visual Basic program to design a Calculator with basic operation.

ALGORITHM:

Step 1: Start → All Programs→ Visual Basic 6.0 (displays New Project dialog box)

Step2: Select Standard EXE from New Project dialog box and click OK button.

Step3: In Form window add one Frame control

Step4: Create a control Array, use copy and paste, add 10 command buttons for digits 0 to 9.

Step 5: Change the properties as given below:

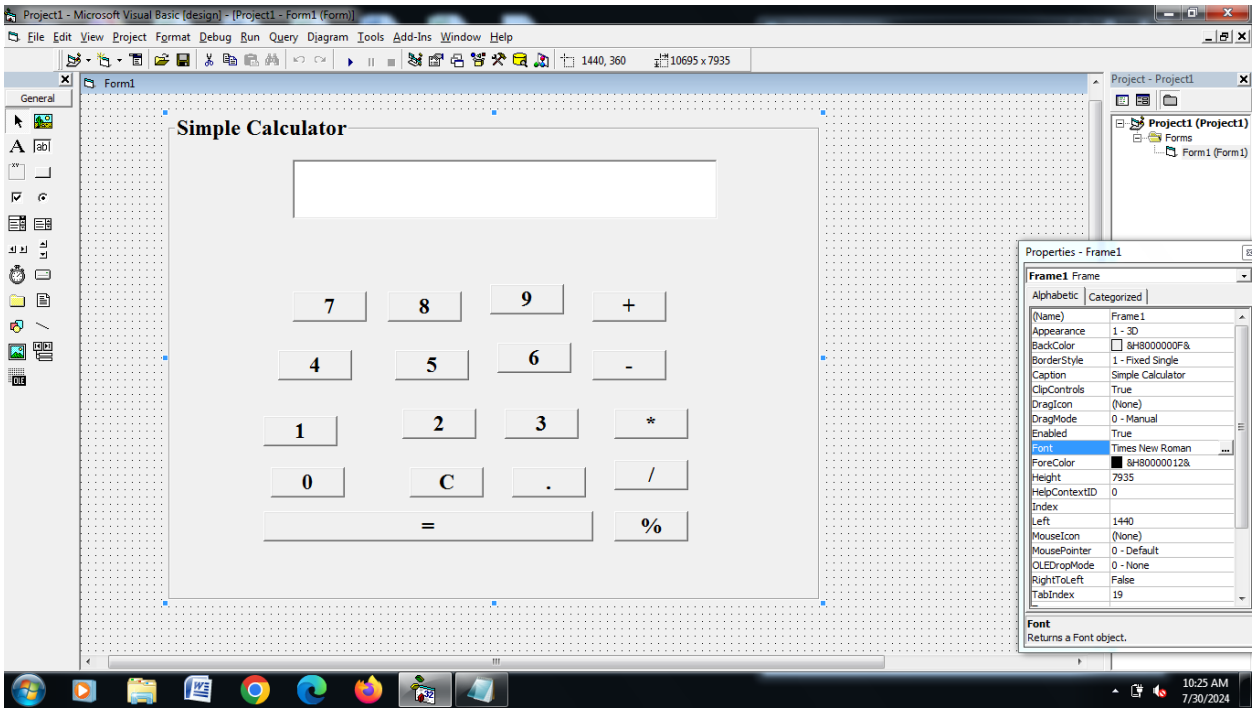
Object	Property	Setting
Form1	Name	Form1
	Caption	Simple Calculator
Frame1	Caption	Simple Calculator
Text1	Name	TxtInput
	Text	<blank>
Command Buttons1(Control Array)	Name	cmdNumber
	Caption	0 – 9 (Control Array)
Command Button	Name	cmdAdd
	Caption	+
Command Button	Name	cmdSub
	Caption	-

Command Button	Name	cmdMul
	Caption	*
Command Button	Name	cmdDiv
	Caption	/
Command Button	Name	cmdMod
	Caption	%
Command Button	Name	cmdClear
	Caption	C

Step5: Add the following code in the respective event procedure.

Step6: Run the form by clicking Run button on the Standard Toolbar or by pressing ‘F5’ key.

Form Design Window



```
Option Explicit
Dim var1, var2 As Double
Dim opern As String

Private Sub Command1_Click(Index As Integer)
Text1.Text = Text1.Text + Command1(Index).Caption

End Sub

Private Sub Command2_Click()
var1 = Val(Text1.Text)
opern = "+"
Text1.Text = ""
End Sub

Private Sub Command3_Click()
var1 = Val(Text1.Text)
opern = "-"
Text1.Text = ""
End Sub

Private Sub Command4_Click()
var1 = Val(Text1.Text)
opern = "*"
```

```
Text1.Text = ""
End Sub

Private Sub Command5_Click()
var1 = Val(Text1.Text)
opern = "/"
Text1.Text = ""
End Sub

Private Sub Command6_Click()
Text1.Text = Text1.Text + "."

End Sub

Private Sub Command7_Click()
var2 = Val(Text1.Text)
Select Case opern
Case "+":
Text1.Text = var1 + var2
Case "-":
Text1.Text = var1 - var2
Case "*":
Text1.Text = var1 * var2
Case "/":
Text1.Text = var1 / var2
```

```
Case "%":
Text1.Text = var1 * (1 / 100)
End Select
End Sub

Private Sub Command8_Click()
var1 = Val(Text1.Text)
opern = "%"
Text1.Text = ""
End Sub

Private Sub Command9_Click()
Text.Text = ""

End Sub
```