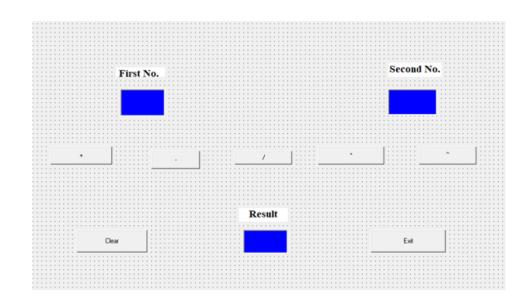
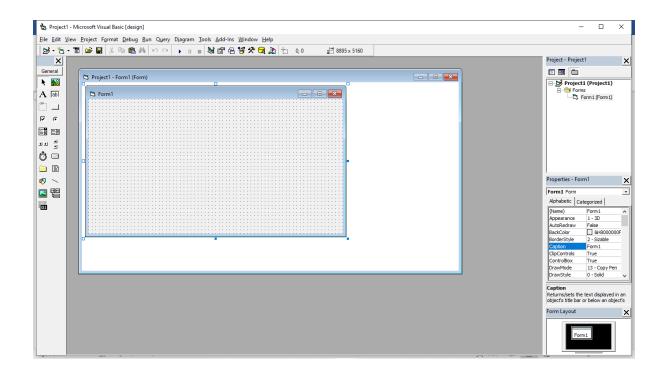
Example (1):

Write a Visual Basic program to build a calculator including $(+, -, *, /, ^)$ operations between two numbers as shown below:



1- Open a Standard EXE (new standard project)

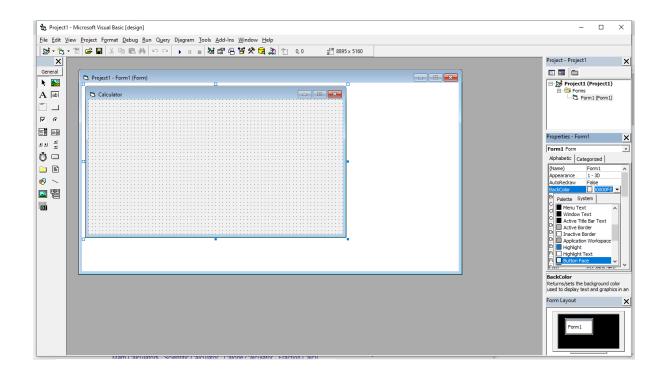
Start.....All programs.......Microsoft Visual Basic 6.0 (folder)...... Microsoft Visual Basic 6....choose standard EXE... open



2- Format the properties of the Form 1:

Properties window.....

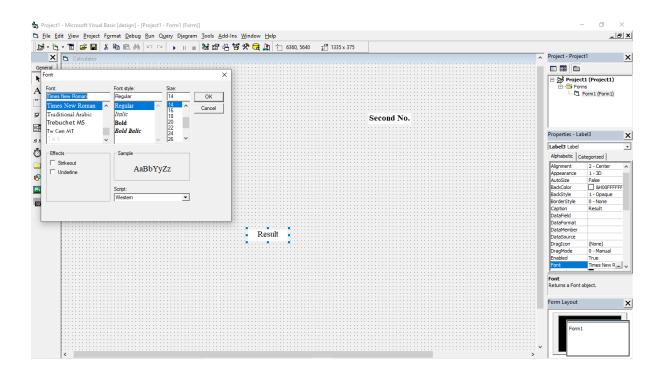
Name	Form 1 Properties
Caption	Calculator
BackColor	Palette (choose any color)



3- Create three controls elements of type Label and format its properties:

ToolBoX Label

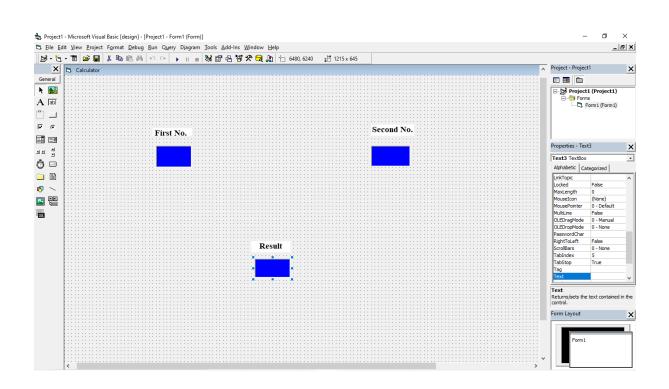
Properties	Label 1	Label 2	Label 3
BackColor	White	White	White
Caption	First No.	Second No.	Result
Font	Times New Roman	Times New Roman	Times New Roman
	Bold,14	Bold,14	Bold,14
Alignment	Centre	Center	Centre



4- Create three controls elements of type **TextBox** and format its properties:

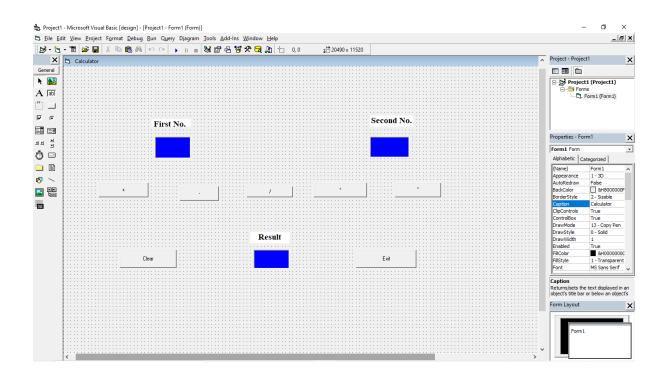
ToolBox...TextBox

Properties	Text 1	Text 2	Text 3
BackColor	Blue	Blue	Blue
Text			
Font	Times New Roman	Times New Roman	Times New Roman
	Bold,14	Bold,14	Bold,14
Alignment	Centre	Center	Centre



5- Create seven Controls elements of type **CommandButton** and format its properties: ToolBox.... CommandButton

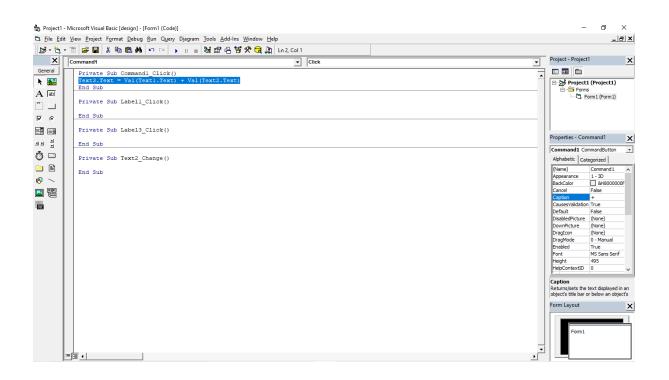
properties	Command1	Command2	Command7
Caption	+	-	Exit
Font	Time, Bold,12	Time, Bold,12	Time, Bold,12



6- Write the code on the command 1 buttons

- Double click on command1(+...addition operation)
- Text3.Text=Val (Text1.Text) +Val (Text2.Text)

* Val: Used to get the Value of text.... Val (20) = 120



*Any coded procedure for any controls is written with the following block **Private Sub** *Control'sName_EventName()*

End Sub

- * Control'sName: taken from ToolBox (CommandButton, Lable, TextBox...)
- * *EventName:* is a call-back mechanism used by the user for notifying to execute the routine.

	t <u>V</u> iew <u>P</u> roject F <u>o</u> rmat <u>D</u> ebug <u>R</u> un Q <u>u</u> ery D <u>i</u> agram <u>T</u> ools <u>A</u> dd-Ins <u>W</u> indow <u>H</u> elp			_ _ 8 ×
😼 - 🍖	・ 🗉 🚔 🖩 🐁 🍋 🛤 🖙 🖙 🖡 🔡 📾 🗄 😤 📿 🔔	Ln 2, Col 1		
×	Command1	-	Click	Project - Project1
General A abi	Private Sub Command1_Click() Text3.Text = Val(Text1.Text) + Val(Text2.Text) End Sub		Click DragOrop DragOver GotFocus KevDown	Project1 (Project1)
□ [[™] • ▼	Private Sub Labell_Click() End Sub		Keyloss Keylp Losfocus MouseDown	C]. Form1 (Form1)
۲ ۲ ۲ ۲	Private Sub Label3_Click()		MouseMove MouseUp OLECompleteDrag V	Properties - Command1
	End Sub			Command1 CommandButton
	Private Sub Text2_Change() End Sub			Alphabetic [Categorized] [Name) Command1 Appearance 1 - 30 BackColor #4000000F Cancel - False Categorized - False Categorized - False Categorized - False Disable/Dirture [None] DowPicture [None] DowPicture [None] Dragfon (None) Dragfond - True Font MtS Sans Senf Height - 495
	= <u> </u>		•	object's title bar or below an object's Form Layout Form 1 Form 1 Form 1

- Write the code of Command2... (-) Text3.Text = Val (Text1. Text) - Val (Text2.Text)
- Write the code of Command3.... (/)
 I F Val (Text2.Text) = 0 THEN
 Text3.Text = "ERROR"
 ELSE

```
Text3.Text = Val (Text1.Text) / Val (Text2.Text)
END IF
```

- Write the code of Command4... ... (*)
 Text3.Text = Val (Text1. Text) * Val (Text2.Text)
- Write the code of Command5.... (^) Text3.Text = Val (Text1.Text) ^ Val (Text2.Text)
- Write the code of Command6... (Clear)

```
Text1.Text = """
Text2.Text= ""
Text3.Text = ""
```

• Write the code of Command7. ... (Exit) **END**

```
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  X
       Command1
                                                                       Click
                                                                    -
eneral
          Private Sub Commandl Click()
          Text3.Text = Val(Text1.Text) + Val(Text2.Text)
 ₽°
          End Sub
 abl
          Private Sub Command2 Click()
 Text3.Text = Val(Text1.Text) - Val(Text2.Text)
          End Sub
 œ.
          Private Sub Command3_Click()
三世
          If Val(Text2.Text) = 0 Then
 ≜
▼
         Text3.Text = "ERROR"
         Else
 Text3.Text = Val(Text1.Text) / Val(Text2.Text)
          End If
 Ð
          End Sub
 \sim
 Private Sub Command4_Click()
          Text3.Text = Val(Text1.Text) * Val(Text2.Text)
          End Sub
          Private Sub Command5 Click()
          Text3.Text = Val(Text1.Text) ^ Val(Text2.Text)
          End Sub
          Private Sub Command6 Click()
          Textl.Text = ""
          Text2.Text = ""
          Text3.Text = ""
          End Sub
          Private Sub Command7 Click()
          End
          End Sub
```

7- Save the project

File....Save project (the program VB save the Form in extension .FRM)

File....Save project as (the program VB save the **Project** in extension. VBP)

File....Make project.exe (to create an application of the project)

* It is noticeable to save each project in a new folder