

**Example3: Write a Visual Basic program to execute the following:**

- 1- Print the numbers from 0 to 10 of increased size and changed color.
- 2- Print the multiplication table of 5.
- 3- Print the multiplication tables.

**Sol.:**

**1-\*\* To print the numbers from 0 to 10 there are four ways as follows**

**A-Without Counter.**

**B-Using For-Next statement.**

**C-Using Do-While statement.**

**D-Using Do-Until statement.**

- Create four controls elements of type Command Button and format its properties as shown in the table below:

Command1		Command 2		Command 3		Command 4	
<b>Name</b>	Command1	<b>Name</b>	Command2	<b>Name</b>	Command3	<b>Name</b>	Command4
<b>Caption</b>	W/O Counter	<b>Caption</b>	For	<b>Caption</b>	Mult. Table 5	<b>Caption</b>	Mult. Tables

**Notes:**

- The font size starts from font 8 to font 30. To format the font size of **Form1**, you must write the following code:  
**Form1.FontSize= 10, 11,.... (any font size)**
- The forecolor of the **Form1** can be obtained using the function:  
**QBColor(0,1,2,.....)**  
**Form1. ForeColor= QBColor(1,2,.....)**

**The forecolor is a property of writing font color.**

- To print on the Form1 as follows:  
To print a number, use the following form:

**Form1.Print 0,1,2,....**

To print a name, use the following form:

Form1.print "ali"

- To clear the Form1 as follows:

**Form1.Cls**

**1-A- Without Counter**

Double click on the first CommandButton Command1 to enter to the Code Window and write the following coding statements

**Private Sub Command1\_Click()**

**Form1.Cls**

**Form1.FontSize=10**

**Form1.ForeColor=QBColor(0)**

**Form1.Print 0**

**Form1.FontSize=11**

**Form1.ForeColor=QBColor(1)**

**Form1.Print 1**

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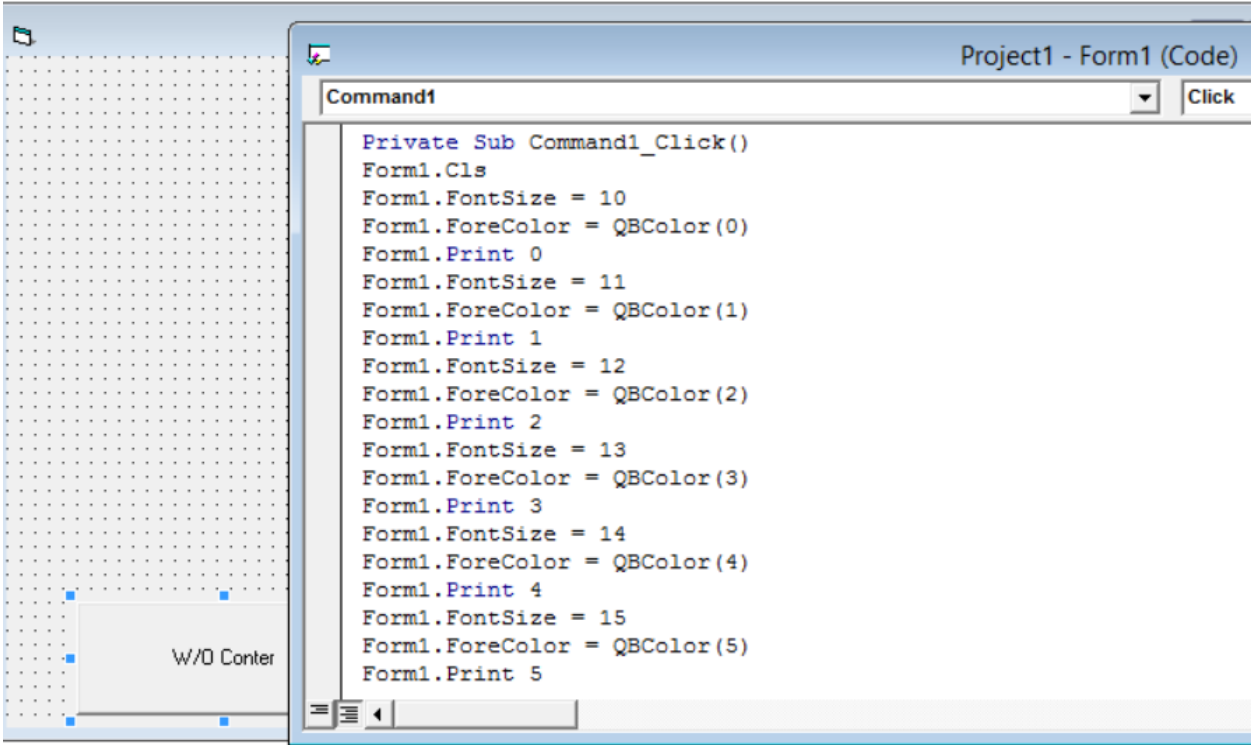
**Form1.FontSize=20**

**Form1.ForeColor=QBColor(10)**

**Form1.Print 10**

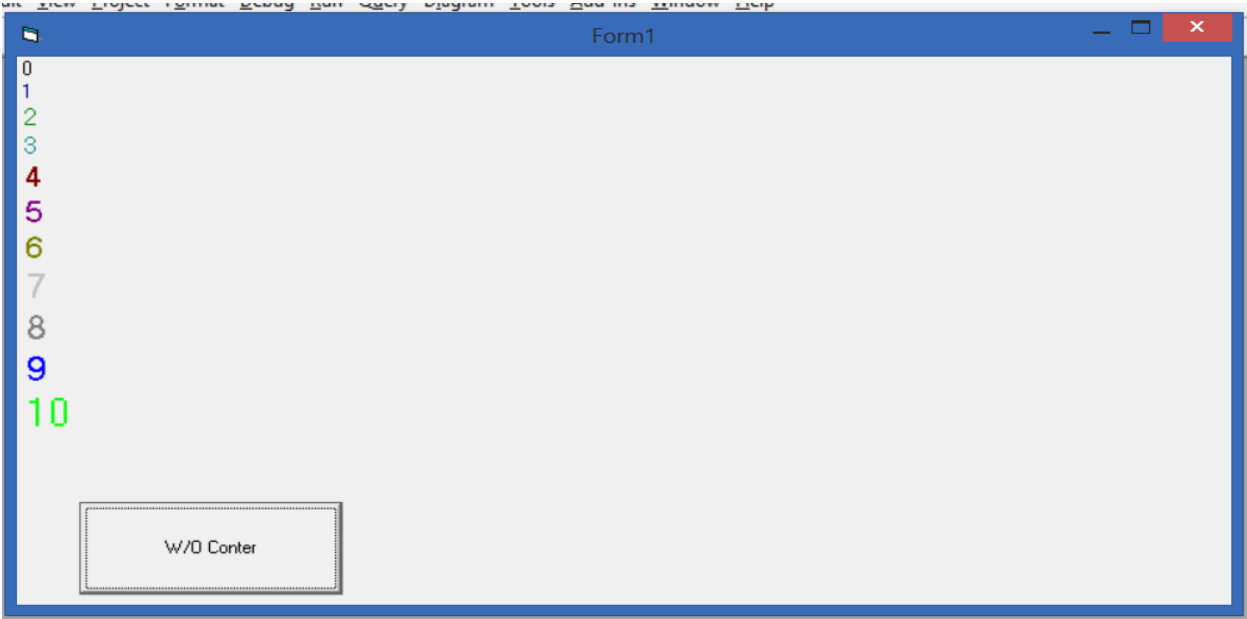
**End Sub**

The Code of W/O Counter Method



```
Private Sub Command1_Click()  
Form1.Cls  
Form1.FontSize = 10  
Form1.ForeColor = QBColor(0)  
Form1.Print 0  
Form1.FontSize = 11  
Form1.ForeColor = QBColor(1)  
Form1.Print 1  
Form1.FontSize = 12  
Form1.ForeColor = QBColor(2)  
Form1.Print 2  
Form1.FontSize = 13  
Form1.ForeColor = QBColor(3)  
Form1.Print 3  
Form1.FontSize = 14  
Form1.ForeColor = QBColor(4)  
Form1.Print 4  
Form1.FontSize = 15  
Form1.ForeColor = QBColor(5)  
Form1.Print 5
```

After execution



**Note: Visual Basic arranges (by default) the numbers vertically at the left edge of the form.**

**1-B-Using For-Next statement.**

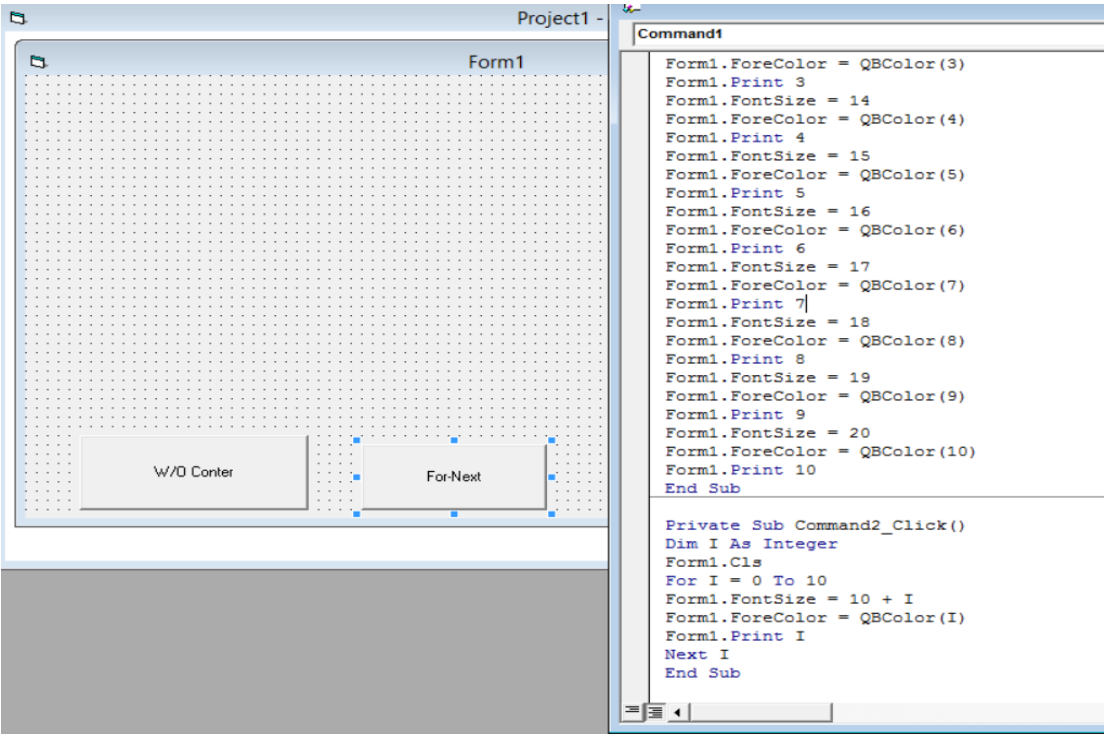
Double click on the second CommandButton Command2 to enter to the Code Window and write the following coding statements:

```
Private Sub Command2_Click()  
Form1.Cls  
Dim I as Integer  
For I=0 to 10  
Form1.FontSize=10+I  
Form1.ForeColor=QBColor(I)  
Form1.Print I  
Next I  
End Sub
```

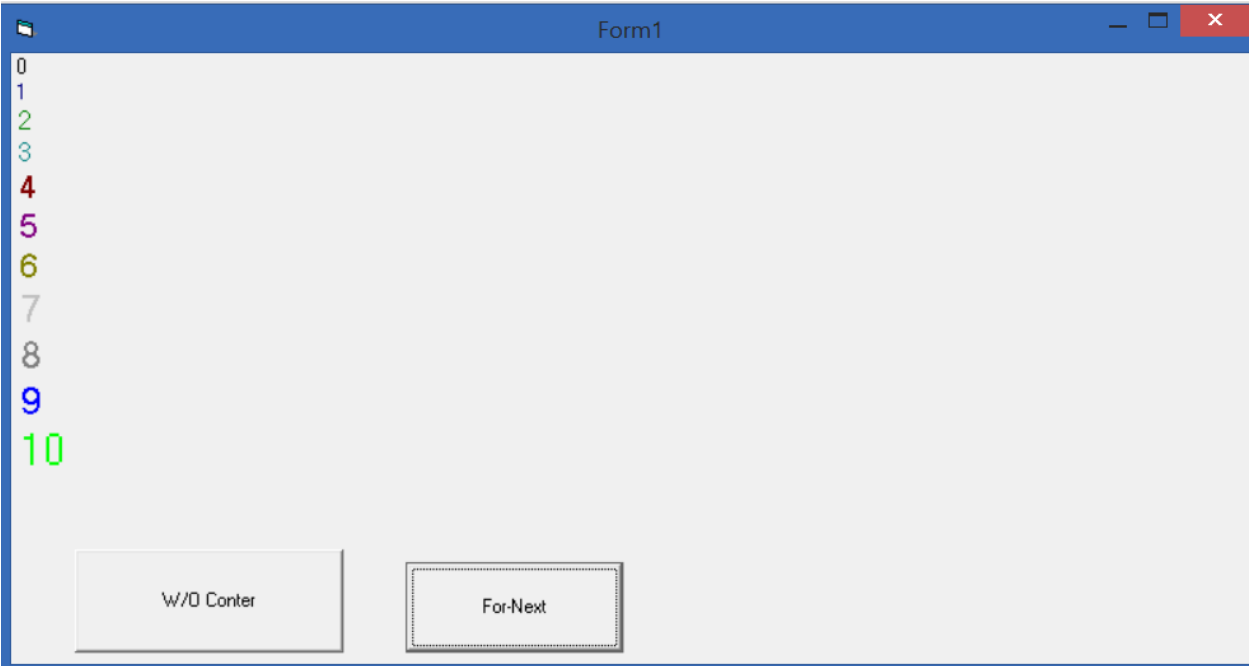
**Notes:**

- **Dim** : is a function to define any variable.
- **The counter code is written as follows:**  
**For counter=start to end [Step number]**  
**Statements**  
**Next counter**
- **counter** : is a variable.
- **start** : is the initial value of the loop.
- **end** : is the end value of the loop.
- **step** : can be positive (increasing if the start lower than end) or negative (decreasing if the start greater than end), and it equal to one if it is not mentioned.

### The Code of For - Next Method



After execution



2- Double click on the third CommandButton Command3 to enter to the Code Window and write the following coding statements:

```
Private Sub Command3_Click()
```

```
Form1.Cls
```

```
Dim I as Integer
```

```
Form1.FontSize=12
```

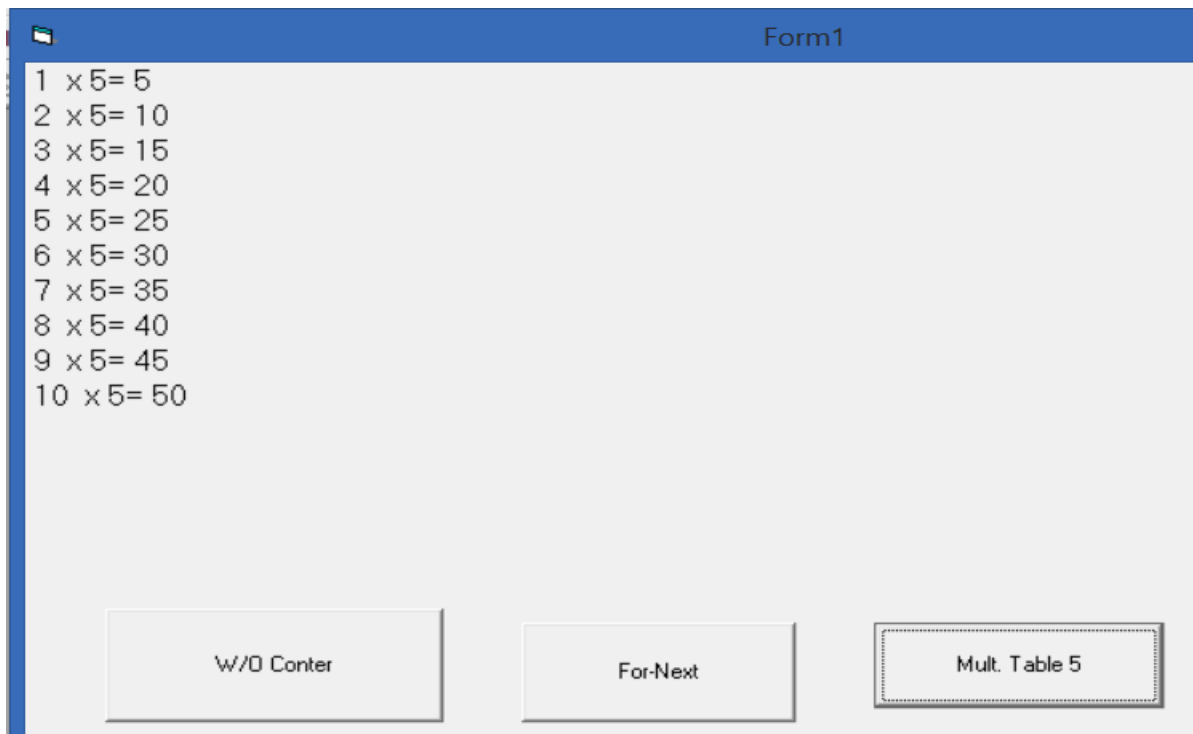
```
Form1.ForeColor=QBColor(0)
```

```
For I=1 to 10
```

```
Form1.Print I ; " x 5=" ; I*5
```

```
Next I
```

```
End Sub
```



- To specify the position of any character on the Form by using function of coordinates (Current X, Current Y)

The X coordinate is ranged from 0 to the width of the Form

**The Y coordinate is ranged from 0 to the height of the Form**

**\*twip : is the unite in VB.....576 twip = 1 cm**

**- In order to make the printing located at the middle of the form, you should write the code as follow:**

**Dim I as Integer**

**Form1.Cls**

**Form1.FontSize=12**

**Form1.ForeColor=QBColor(0)**

**For I=1 to 10**

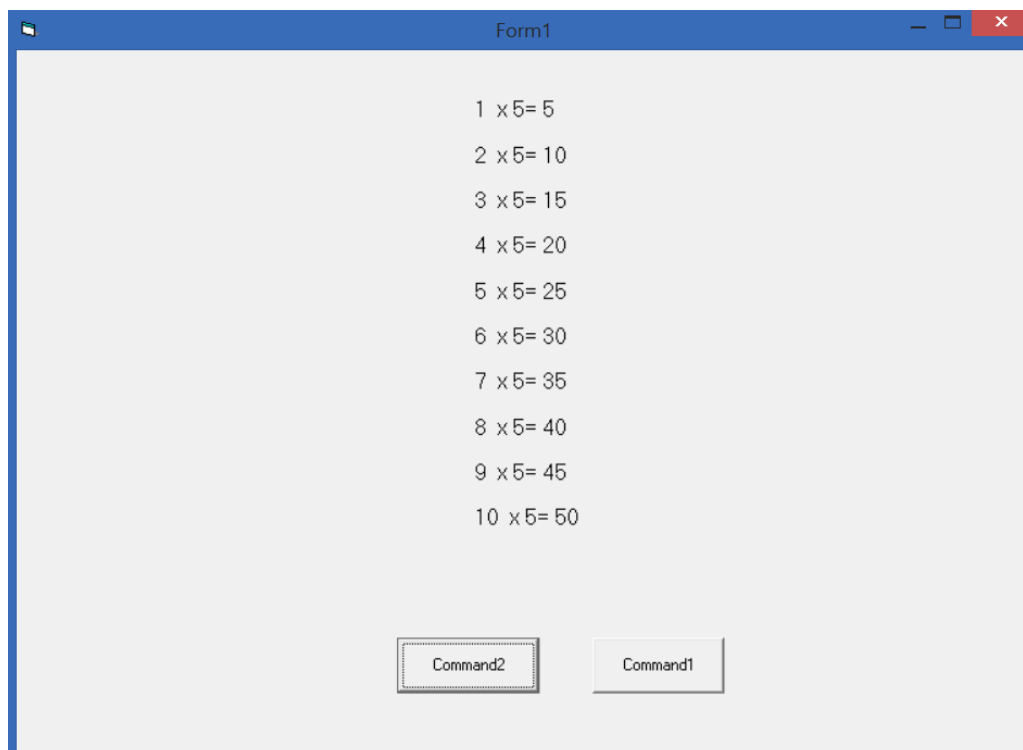
**Form1.current x = 5000**

**Form1.current y=i\*500**

**Form1.Print I ; “ x 5=” ; I\*5**

**Next I**

**End Sub**



3-Double click on the fourth CommandButton Command4 to enter to the Code Window and write the following coding statements:

```
Private Sub Command4_Click()
```

```
Dim i as Integer, j as Integer
```

```
Form1.Cls
```

```
Form1.FontSize=10
```

```
For i=1 to 10
```

```
Form1.ForeColor=QBColor(i)
```

```
For j=1 to 10
```

```
Form1.CurrentX=1000*i
```

```
Form1.CurrentY=500*j
```

```
Form1.Print j ; "×" ; i ; "=" ; i*j
```

```
Next j
```

```
Next i
```

```
End Sub
```

