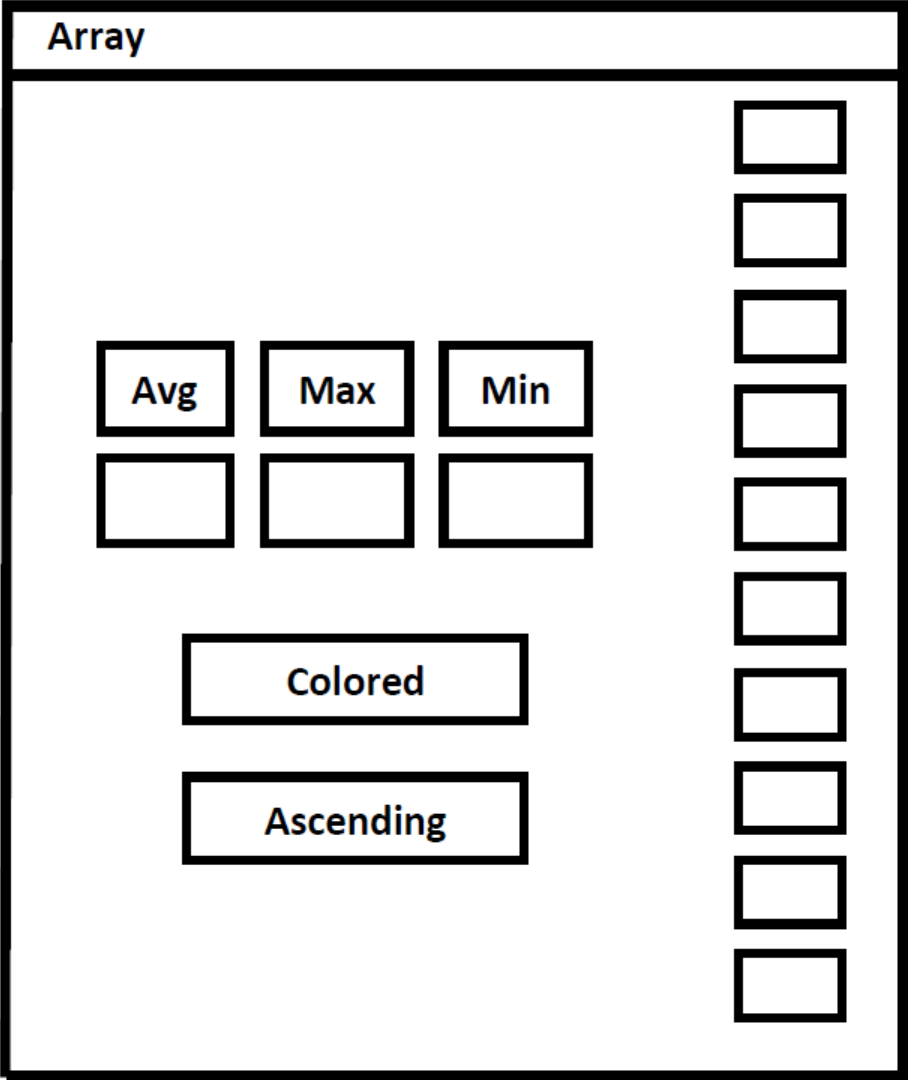


Example4: Write a Visual Basic program to build a system for input 10 numbers and find the following: (The profile is shown below)

- 1-The average of these numbers.
- 2-The maximum of these numbers.
- 3- The minimum of these numbers.
- 4-Arrange the numbers ascending.
- 5-Colored the even and odd value differently.



Sol.:

1-Create 1 TextBox with the following properties

Notes:

- **In order to create ten textboxes with the same name and properties, you should use “array” property.**
- **Array can be created by doing the following steps:**

a- create one text box and named it by any name such as (N).

b- copy the text box which was done in step (a) and paste it in the form 9 times.

When you paste this textbox the following message will appear

(you already have a control named(N). do you want to create a control array?)

press OK,.

**** notice that the property **Index** will be activated in the textboxes of the array.**

And **the controls will named (N(0)...N(1)...N(2)...etc)**

3-Create 3 TextBoxes of Name (TxtAvg, TxtMax, TxtMin)

4-Create 5 CommandButtons of caption (AVG, MAX, MIN, Ascending, Colored).

5- writing the code:

5-1: print the following code in (AVG)

```
Dim i As Integer, S As Single
```

```
S=0
```

```
For i = 0 To 9
```

```
S = S + Val ( N(i) .Text )
```

```
Next i
```

```
TxtAvg.Text = S / 10
```

Text 1	
Name	N
Text	
Index	

5-2: print the following code in (max)

Dim i As Integer, Max As Single

Max = Val (N(0) . text)

For i = 1 To 9

If Val (N(i).text) > Max Then

Max = Val (N(i).text)

End If

Next i

TxtMax.Text = Max

5-3: print the following code in (MIN)

Dim i As Integer, Min As Single

Min = Val (N(0).text)

For i = 1 To 9

If Val (N(i).text) < Min Then

Min = Val (N(i).text)

End If

Next i

TxtMin.Text = Min

5-4 print the following code in (Ascending)

```
Dim i As Integer, j As Integer, x as single
```

```
For i = 0 To 9
```

```
For j = i + 1 To 9
```

```
If Val(N(j).text) < Val(N(i).text) Then
```

```
x = N(j).text
```

```
N(j).text = N(i).text
```

```
N(i).text = x
```

```
End If
```

```
Next j
```

```
Next i
```

5-5: Then print the following code in (Colored)

```
Dim i As Integer
```

```
For i = 0 To 9
```

```
If Val(N(i).text) Mod 2 = 0 Then
```

```
N(i).ForeColor = QBColor(4)
```

```
Else
```

```
N(i).ForeColor = QBColor(1)
```

```
End If
```

```
Next i
```