



# COLLEGE OF ENGINEERING & TECHNOLOGY

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Course : Introduction To Programming

Course No. : CC114

## Sheet 4 If .... Then .... Else Statments

**Q1.** Choose the correct answer:

1. The If...Then...Else selection statement ends with the ..... keywords .  
a) End If Then Else    b) End If Else    c) End Else    d) End If
2. A variable of data type Boolean can be assigned keyword ..... or keyword .....  
a) True, False    b) Off, On    c) True, NotTrue    d) Yes, No
3. An identifier whose value cannot be changed after its initial declaration is called a .....  
a) Double    b) standard    c) constant    d) Boolean
4. The ..... operator assigns the result of adding the left and right operands to the left operand.  
a) +    b) +=    c) =+    d) None of the above
5. Which of the following is a double-selection control statement ?  
a) If...Then...ElseIf...Then...Else    b) If...Then...Else  
c) If...Then    d) None of the above
6. In a condition, the .... operator returns False if the left operand is larger than the right operand.  
a) =    b) <    c) <=    d) All of the above

**Q2.** What's the output of the following pieces of code?

1. What's the output of the following if age=15?

```
Dim age As Integer

age = Val(ageTextBox.Text)

If age < 0 Then
    ageLabel.Text = "Enter a value greater than or equal to zero."
ElseIf age < 13 Then
    ageLabel.Text = "Child"
ElseIf age < 20 Then
    ageLabel.Text = "Teenager"
ElseIf age < 30 Then
    ageLabel.Text = "Young Adult"
ElseIf age < 65 Then
    ageLabel.Text = "Adult"
Else
    ageLabel.Text = "Senior Citizen"
End If
```

2. What's the output of the following if intNum=9?

```
If intNum > 100 Then
    intNum *= 3
Elseif intNum > 15 Then
    intNum *= 4
Else
    intNum *= 5
End If
```

3.

```
Dim X As Integer
Dim Y As Integer
X=10
Y=66\X
If Y <> 40 Then
    Label1.Text = "Hello"
Else
    Label1.Text = "Wake Up"
End If
```

4.

```
Dim num1 As Integer = 2
Dim num2 As Integer = 7
Dim result As Integer

If num1 >= num2 Then
    result = num1 Mod num2
Else
    result = num2 Mod num1
End If

If result = 0 Then
    Label1.Text = "Zero"
Elseif result = 1 Then
    Label1.Text = "One"
Else
    Label1.Text = "Other"
End If
```

**Q3.** Find the error(s) in the following code:

1.

```
If X > 50 Then
    X -= 40
Else If X > 10
    X =+10
End
```

2.

```
Dim hour As Integer

hour = 14

If hour < 11 Then
    If hour > 0 Then
        ampmlabel.Text = "AM"
    End If
Else
    ampmlabel.Text = "PM"
ElseIf hour > 23 Then
    ampmlabel.Text = "Time Error."
End If
```

**Q4.** Create a Visual Basic application that calculates an employee's earnings. The user should provide the hourly wage and number of hours worked per week. When the Calculate Button is clicked, the employee's gross earnings should display in the Gross earnings: TextBox. The Less FWT: TextBox should display the amount deducted for federal taxes and the Net earnings: Text- Box should display the difference between the gross earnings and the federal tax amount. Federal taxes are 15% of gross earnings if they are greater than 400\$. The Clear Button should clear all fields.



**Q5.** Write a Visual Basic code that calculates the areas of a triangle & a rectangle, and declares whether the area of the triangle is smaller, greater or equal to the area of the rectangle, where:

Area of Triangle = 0.5 x base x height

Area of Rectangle = length x width

**Q6.** Write a Visual Basic code to read a grade from the user, if the grade is 90 & above, the program should print "Excellent", if it's less than 90 but greater than 80, the program should print "Very Good", if it's less than 80 but greater than 60 the program should print "Good", otherwise it should print "Poor".