COLLEGE OF ENGINEERING & TECHNOLOGY

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Course : Introduction To Programming

Course No. : CC114

Sheet 6
Select Case

Q1. Choose the correct answer:

1. The …………... keywords signify the end of a Select Case statement.
   a) End Case   b) End Select   c) End Select Case   d) Case End

2. The expression …………... returns the current system time and date.
   a) Date.DateTime   b) Date.SystemDateTime   c) Date.Now   d) Date.SystemTimeDate

3. You can hide information entered into a TextBox by setting the TextBox's …………...property to a character that will be displayed for every character the user enters.
   a) PrivateChar   b) Mask   c) MaskingChar   d) PasswordChar

4. Keyword …………... is used to specify a range in a Case statement.
   a) Also   b) Between   c) To   d) From

5. …………... separates multiple values tested in a Case statement.
   a) A comma   b) An underscore   c) Also   d) A semicolon

6. The …………... method inserts a value at a specified location in a ListBox.
   a) Append   b) Items.Insert   c) InsertAt   d) Items.Add

7. If the value on the left of the To keyword in a Case statement is larger than the value on the right, …………... .
   a) a syntax error occurs   b) the body of the Case statement executes
   c) the body of the Case statement never executes   d) the statement causes a runtime error

8. The expression following the keywords Select Case is called a …………... .
   a) guard condition   b) controlling expression   c) selection expression   d) case expression

9. To prevent a user from modifying text in a TextBox, set its …………... property to False.
   a) Enabled   b) Text   c) TextChange   d) Editable

Q2. What is output by the following code? Assume that donationButton is a Button, donationTextBox is a TextBox and messageLabel is an output Label.

```
Private Sub donationButton_Click(sender As System.Object,
    e As System.EventArgs) Handles donationButton.Click

    Select Case Val(donationTextBox.Text)
        Case 0
            messageLabel.Text = "Please consider donating to our cause."
        Case 1 To 100
            messageLabel.Text = "Thank you for your donation."
        Case Is > 100
            messageLabel.Text = "Thank you very much for your donation!"
        Case Else
            messageLabel.Text = "Please enter a valid amount."
    End Select
End Sub
```

Q3. This Select Case statement should determine whether the Integer value is even or odd. Find the error(s) in the following code:

```
Select Case value Mod 2
    Case 0
        outputLabel.Text = "Odd Integer"
    Case 1
        outputLabel.Text = "Even Integer"
End Select
```

Q4. Develop an app that calculates a salesperson's commission from the number of items sold. Assume that all items have a fixed price of $10 per unit. Use select case statement to implement the following sales commission schedule:

Fewer than 10 items sold = 1% commission
Between 10 and 40 items sold = 2% commission
Between 41 and 100 items sold = 4% commission
More than 100 items sold = 8% commission

Q5. Create an app that computes the amount of income tax that a person must pay, depending upon salary. Income tax should be calculated for each portion of income in each range. For example, a user who earns $25,000 pays 10% on the first $7,825 and 15% on the remaining $17,175. Use the following income ranges and corresponding tax rates:

Not over $7,825 = 10% income tax
$7,826-$31,850 = 15% income tax
$31,851-77,100 = 25% income tax
$77,101-160,850 = 28% income tax
$160,850-349,700 = 33% income tax
Over $349,700 = 35% income tax