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5.
```
Private Sub btnDisplay_Click(...) Handles btnDisplay.Click
  Dim letter As String
  letter = InputBox("Enter A, B, or C.")
  letter = letter.ToUpper
  If letter = "A" Then
    txtOutput.Text = "A, my name is Alice."
  ElseIf letter = "B" Then
    txtOutput.Text = "To be, or not to be."
  ElseIf letter = "C" Then
    txtOutput.Text = "Oh, say, can you see."
  Else
    txtOutput.Text = "Not a valid letter."
  End If
End Sub
```

(Assume the response is B.)

6.
```
Private Sub btnDisplay_Click(...) Handles btnDisplay.Click
  Dim vowel As Boolean = False
  Dim ltr As String
  ltr = InputBox("Enter a letter.")
  ltr = ltr.ToUpper
  If (ltr = "A") Or (ltr = "E") Or (ltr = "I") Or
     (ltr = "O") Or (ltr = "U") Then
    vowel = True
  End If
  If vowel Then
    txtOutput.Text = ltr & " is a vowel."
  Else
    txtOutput.Text = ltr & " is not a vowel."
  End If
End Sub
```

(Assume the response is *a*.)

7.
```
Private Sub btnDisplay_Click(...) Handles btnDisplay.Click
  Dim a As Double = 5
  If (a > 2) And ((a = 3) Or (a < 7)) Then
    txtOutput.Text = "Hi"
  End If
End Sub
```

8.
```
Private Sub btnDisplay_Click(...) Handles btnDisplay.Click
  Dim num As Double = 5
  If num < 0 Then
    txtOutput.Text = "neg"
  Else
    If num = 0 Then
      txtOutput.Text = "zero"
    Else
      txtOutput.Text = "positive"
    End If
  End If
End Sub
```