

1. Describe the logical error that you see in the If ElseIf statement below.

```
If (grade >= 70) Then
    MessageBox.Show("You earned a C")
ElseIf (grade >= 80) Then
    MessageBox.Show("You earned a B")
ElseIf (grade >= 90) Then
    MessageBox.Show("You earned an A")
Else
    MessageBox.Show("You earned a D or less")
End If
```

' describe error here:

2. You are guaranteed that the age is an integer. Write an If ElseIf Else statement that displays **one** of the following messages in a message box:
- "You can ride a tricycle" if the variable age is greater than 2 and less than 6
  - "You can ride a bicycle" if the variable age is greater than 5 and less than 16
  - "You can drive a car" if the variable age is greater than 15

3. Write an efficient If statement that displays the message "prime" in a message box if the variable num is a prime number. Otherwise, display the message "not prime". You are guaranteed that num is an integer greater than 2 and less than 49. **(Hint: See the lecture notes for help.)**