2) (a)

```
Function male(x As String) As String
Select Case x:
Case Is < 20: male = "underweight"
Case 20 To 24.9: male = "normal weight"
Case Is < 29.9, 29.9: male = "overweight"
Case Is < 39.9, 39.9: male = "obese"
Case Else: male = "extreme obese"
End Select
End Function
(b)
Function female(x As String) As String
Select Case x:
Case Is < 19: female = "underweight"
Case 19 To 23.9: female = "normal weight"
Case Is < 28.9, 28.9; female = "overweight"
Case Is < 38.9, 38.9: female = "obese"
Case Else: female = "extreme obese"
End Select
End Function
```

In (a) and (b) the variable x plays the role of the body mass index. Notice that the \geq = or <= symbols are not recognized by SELECT CASE structures so that for example the case x<=29.9 needs to be split into the case x<29.9 and the case x=29.9.

(c)

```
Function mafe(x As Single, g As String) As String
Select Case g:
Case "male":
Select Case x:
Case Is < 20: mafe = "underweight"
Case 20 To 24.9: mafe = "normal weight"
Case Is < 29.9, 29.9: mafe = "overweight"
Case Is < 39.9, 39.9: mafe = "obese"
Case Else: mafe = "extreme obese"
End Select
Case "female":
Select Case x:
Case Is < 19: mafe = "underweight"
Case 19 To 23.9: mafe = "normal weight"
Case Is < 28.9, 28.9: mafe = "overweight"
Case Is < 38.9, 38.9: mafe = "obese"
Case Else: mafe = "extreme obese"
End Select
Case Else: mafe = "sorry, I do not have information for this case"
End Select
End Function
```

```
3) (a)
```

4)

```
Function hello1(da As Date) As String
       Dim y As Integer
       y = Hour(da)
       Select Case y:
       Case Is < 12: hello1 = "Good morning!"
       Case Is < 18: hello1 = "Good afternoon!"
       Case Is < 22: hello1 = "Good evening!"
       Case Else: hello1 = "Good night!"
       End Select
       End Function
(b)
      Function hello2(da As Date) As String
      Dim y As Integer
      y = Hour(da)
      Select Case y:
      Case Is < 12: hello2 = "Good morning!"
      Case Is < 16: hello2 = "Good afternoon!"
      Case Is < 21: hello2 = "Good evening!"
      Case Else: hello2 = "Good night!"
      End Select
      End Function
(c)
       Function hello(da As Date) As String
       Dim y As Integer
       y = Month(da)
       Select Case y:
       Case 5 To 10:
       hello = hello1(da)
       Case Else
       hello = hello2(da)
       End Select
       End Function
       Function whichday(da As Date) As String
       Dim y As Integer
       y = Weekday(da)
       Select Case y:
       Case 2: whichday = "Monday"
       Case 3: whichday = "Tuesday"
       Case 4: whichday = "Wednesday"
       Case 5: whichday = "Thursday"
       Case 6: whichday = "Friday"
       Case Else: whichday = "This date falls on a weekend"
       End Select
       End Function
```