

Solutions (Part II) Lab-session 2

1) Sub Rainbow()

```
,  
' Rainbow Macro  
' draw a rainbow into the cells A1:K6  
,  
' Keyboard Shortcut: Ctrl+r  
,  
  
    Range("A1:K1").Select  
    With Selection.Interior  
        .ColorIndex = 3 (→13 in the reversed rainbow)  
        .Pattern = xlSolid  
    End With  
    Range("A2:K2").Select  
    With Selection.Interior  
        .ColorIndex = 46 (→5 in the reversed rainbow)  
        .Pattern = xlSolid  
    End With  
    Range("A3:K3").Select  
    With Selection.Interior  
        .ColorIndex = 6 (→4 in the reversed rainbow)  
        .Pattern = xlSolid  
    End With  
    Range("A4:K4").Select  
    With Selection.Interior  
        .ColorIndex = 4 (→6 in the reversed rainbow)  
        .Pattern = xlSolid  
    End With  
    Range("A5:K5").Select  
    With Selection.Interior  
        .ColorIndex = 5 (→46 in the reversed rainbow)  
        .Pattern = xlSolid  
    End With  
    Range("A6:K6").Select  
    With Selection.Interior  
        .ColorIndex = 13 (→3 in the reversed rainbow)  
        .Pattern = xlSolid  
    End With  
End Sub
```

2) Sub Copy()

```
,  
' Copy Macro  
' copy the content of A1:G6 to G21:M26  
,  
' Keyboard Shortcut: Ctrl+c  
,  
    Range("A1:G6").Select  
    Selection.Copy  
    Range("G21").Select  
    ActiveSheet.Paste  
    ActiveSheet.Paste  
    Application.CutCopyMode = False  
End Sub
```

4) Sub SumA1A25()

```
,  
' SumA1A25 Macro  
' calculate the sum of the cells A1:A25  
,  
' Keyboard Shortcut: Ctrl+s  
,  
    Range("G13").Select  
    ActiveCell.FormulaR1C1 = "The sum of the cells A1 to A25 is:"  
    Range("K13").Select  
    ActiveCell.FormulaR1C1 = "=SUM(R[-12]C[-10]:R[12]C[-10])"  
    Range("L14").Select  
End Sub
```

$$\sum_{a=1}^{25} 2a = 650$$

$$\sum_{a=11}^{35} a = 575$$

$$\sum_{a=1}^{25} 2^a = 67108862 .$$

5)

```
Sub comp()  
Dim x, r As Single  
Dim n As Integer  
x = Range("A1").Value  
r = Range("A2").Value  
n = Range("B1").Value  
a = 1  
Do Until a = n + 1  
x = r * x * (1 - x)  
a = a + 1  
Loop  
Range("A3").Value = x  
End Sub
```