Question 1

```
Public Class Form1
   Private Sub Form1 Load(sender As Object, e As EventArgs) Handles MyBase.Load
   End Sub
    Private Sub Button1 Click(sender As Object, e As EventArgs) Handles btnEarth.Click
       lblGravityMeters.Text = 9.81 & " m/s^2"
       lblGravityFeet.Text = 32.19 & " m/s^2"
        lblGravityMeters.TextAlign = ContentAlignment.MiddleLeft
        lblGravityFeet.TextAlign = ContentAlignment.BottomLeft
        lblGravityMeters.ForeColor = Color.Blue
        lblGravityFeet.ForeColor = Color.Red
        lblGravityMeters.BackColor = Color.Yellow
        lblGravityFeet.BackColor = Color.Cyan
    End Sub
   Private Sub Label1_Click(sender As Object, e As EventArgs) Handles
lblGravityMeters.Click
    End Sub
   Private Sub btnMercury_Click(sender As Object, e As EventArgs) Handles
btnMercury.Click
        lblGravityMeters.Text = 3.61 & " m/s^2"
       lblGravityFeet.Text = 11.84 & " m/s^2"
        lblGravityMeters.TextAlign = ContentAlignment.MiddleRight
        lblGravityFeet.TextAlign = ContentAlignment.TopRight
        lblGravityMeters.ForeColor = Color.Red
        lblGravityFeet.ForeColor = Color.Blue
        lblGravityMeters.BackColor = Color.Cyan
       lblGravityFeet.BackColor = Color.Yellow
    End Sub
   Private Sub btnMars_Click(sender As Object, e As EventArgs) Handles btnMars.Click
        lblGravityMeters.Text = 3.75 & " m/s^2"
        lblGravityFeet.Text = 12.3 & " m/s^2"
        lblGravityMeters.TextAlign = ContentAlignment.MiddleCenter
        lblGravityFeet.TextAlign = ContentAlignment.BottomRight
```

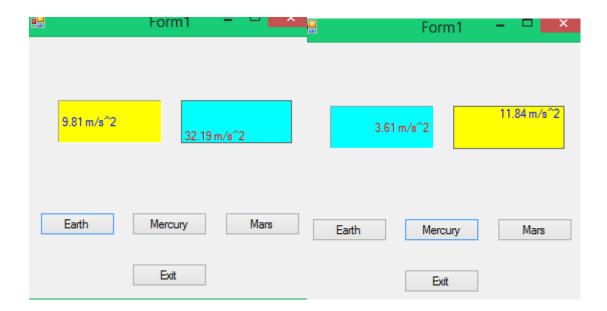
```
lblGravityMeters.ForeColor = Color.Green
lblGravityFeet.ForeColor = Color.Yellow
lblGravityMeters.BackColor = Color.Yellow
lblGravityFeet.BackColor = Color.Green
```

End Sub

Private Sub Button1_Click_1(sender As Object, e As EventArgs) Handles btnExit.Click
 Me.Close()

End Sub

End Class



Question 2

```
Public Class Form1
   Dim lngMass As Long
   Dim lngSpeed As Long
   Dim lngPathRadius As Long
   Dim lngCharge As Long
   Dim lngCalculate As Long
   Private Sub Label1_Click(sender As Object, e As EventArgs) Handles
lblInputInstructions.Click
   End Sub
   Private Sub Label2_Click(sender As Object, e As EventArgs) Handles lblMass.Click
    End Sub
   Private Sub Label5 Click(sender As Object, e As EventArgs) Handles lblCharge.Click
   End Sub
    Private Sub TextBox1 TextChanged(sender As Object, e As EventArgs) Handles
txtInputMass.TextChanged
        lngMass = CLng(txtInputMass.Text)
        lblDisplayMass.Text = lngMass.ToString("e5")
   End Sub
   Private Sub txtInputSpeed TextChanged(sender As Object, e As EventArgs) Handles
txtInputSpeed.TextChanged
        lngSpeed = CLng(txtInputSpeed.Text)
        lblDisplaySpeed.Text = lngSpeed.ToString("e5")
   End Sub
   Private Sub txtInputRadius_TextChanged(sender As Object, e As EventArgs) Handles
txtInputPathRadius.TextChanged
       lngPathRadius = CLng(txtInputPathRadius.Text)
        lblDisplayPathRadius.Text = lngPathRadius.ToString("n5")
   End Sub
   Private Sub txtInputCharge TextChanged(sender As Object, e As EventArgs) Handles
txtInputCharge.TextChanged
        lngCharge = CLng(txtInputCharge.Text)
       lblDisplayCharge.Text = lngCharge.ToString("e5")
```

End Sub

End Class

	TOTAL		
Input Anesthetic Isoflurane Values:			Input Values:
Mass [kg]	3		3.00000e+000
Speed [m/s]	4		4.00000e+000
Path Radius [m]	5		5.00000
Charge [C] (Absolute Value)	6		6.00000e+000
Calculate Magnitu of Magnetic Fiel		Exit	

```
Public Class Form1
    ' Ilker Hadzhalaran
   Dim dblForce1 As Double
   Dim dblForce2 As Double
   Dim dblForce3 As Double
   Dim dblAngle1 As Double
   Dim dblAngle2 As Double
   Dim dblAngle3 As Double
   Dim dblCalculate As Double
   Dim dblSX As Double
   Dim dblSY As Double
   Private Sub txtInputForce1 TextChanged(sender As Object, e As EventArgs) Handles
txtInputForce1.TextChanged
       dblForce1 = CDbl(txtInputForce1.Text)
        lblForce1ResultSecondTab.Text = dblForce1.ToString("n3")
    End Sub
   Private Sub txtInputForce2 TextChanged(sender As Object, e As EventArgs) Handles
txtInputForce2.TextChanged
        dblForce2 = CDbl(txtInputForce2.Text)
        lblForce2ResultSecondTab.Text = dblForce2.ToString("n3")
    End Sub
   Private Sub txtInputForce3_TextChanged(sender As Object, e As EventArgs) Handles
txtInputForce3.TextChanged
       dblForce3 = CDbl(txtInputForce3.Text)
        lblForce3ResultSecondTab.Text = dblForce3.ToString("n3")
    End Sub
   Private Sub txtInputAngle1_TextChanged(sender As Object, e As EventArgs) Handles
txtInputAngle1.TextChanged
        dblAngle1 = CDbl(txtInputAngle1.Text)
        lblAngle1ResultSecondTab.Text = dblAngle1.ToString("n3")
    End Sub
   Private Sub txtInputAngle2_TextChanged(sender As Object, e As EventArgs) Handles
txtInputAngle2.TextChanged
        dblAngle2 = CDbl(txtInputAngle2.Text)
        lblAngle2ResultSecondTab.Text = dblAngle2.ToString("n3")
    End Sub
    Private Sub txtInputAngle3 TextChanged(sender As Object, e As EventArgs) Handles
txtInputAngle3.TextChanged
```

```
dblAngle3 = CDbl(txtInputAngle3.Text)
        lblAngle3ResultSecondTab.Text = dblAngle3.ToString("n3")
    End Sub
   Private Sub btnCalculate_Click(sender As Object, e As EventArgs) Handles
btnCalculate.Click
        dblSX = dblForce1 * Math.Cos(dblAngle1) + dblForce2 * Math.Cos(dblAngle2) +
dblForce3 * Math.Cos(dblAngle3)
       dblSY = dblForce1 * Math.Sin(dblAngle1) + dblForce2 * Math.Sin(dblAngle2) +
dblForce3 * Math.Sin(dblAngle3)
        lblSXThirdTab.Text = dblSX.ToString("n3")
        lblSYThirdTab.Text = dblSY.ToString("n3")
       lblF1XThirdTab.Text = (dblForce1 * Math.Cos(dblAngle1)).ToString("n3")
       lblF2XThirdTab.Text = (dblForce2 * Math.Cos(dblAngle2)).ToString("n3")
       lblF3XThirdTab.Text = (dblForce3 * Math.Cos(dblAngle3)).ToString("n3")
       lblF1YThirdTab.Text = (dblForce1 * Math.Sin(dblAngle1)).ToString("n3")
        lblF2YThirdTab.Text = (dblForce2 * Math.Sin(dblAngle2)).ToString("n3")
        lblF3YThirdTab.Text = (dblForce3 * Math.Sin(dblAngle3)).ToString("n3")
        dblCalculate = Math.Sqrt(Math.Pow(dblSX, 2) + Math.Pow(dblSY, 2))
       lblResultantThirdTab.Text = dblCalculate.ToString("n")
       lblInstructionsAfterCalculation.Text = "Your Calculation has been completed.
Check the other tabs to see the results."
   End Sub
   Private Sub btnExit_Click(sender As Object, e As EventArgs) Handles btnExit.Click
       Me.Close()
    End Sub
```

End Class

