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Lab no 03

Internet Application Development

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Implement the Currency Converter Application discussed in the class.

The application should include following features:

• Conversion from US dollars to Euros, Canadian Dollars and Japanese Yen.

• Display currency graphs. (The graphs are available in this folder of Lab).

ASPX CODE

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="prob_A.aspx.vb"
Inherits="lab03_prob_A" %>

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
 <style>
 #form1{
 margin:50px;
 padding:30px;
 border:3px solid black
 }
 .div1Class{


 }
 #ResultDiv{
 border:1px solid black;
 color:black;
 font-size:25px;
 }
 </style>
 <title></title>
</head>
<body>
 <form id="form1" runat="server">
 <div class="div1Class" id="div1">
 <label runat="server" id ="label1">
 Convert : &nbsp
 </label>
 <input id="inputAmount" runat="server" type="text"/>&nbsp
 <label runat="server" id ="label2">
 &nbsp &nbsp US . dollars to &nbsp
 </label>
 <select id="SelectCurrency" runat="server"></select>
 <br />
 <br />
 <input type="submit" value="OK" id="Convert" runat="server"/>
 <input type="submit" value="Show Graph" id="ShowGraph" runat="server">
 <br />
```

```html
  <br />
  <br />
  </div>
  <img id="GraphImage" runat="server"/>
  <br />
  <br />
  <br />

  <div id="ResultDiv" runat="server"></div>
  </form>
</body>
</html>
```
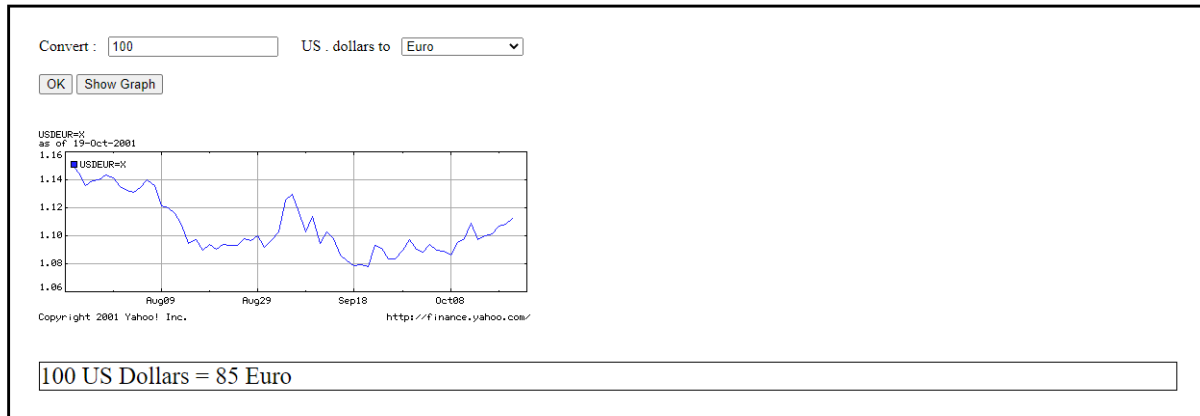
VB.NET

```vbnet
Partial Class lab03_prob_A
    Inherits System.Web.UI.Page
    Private Sub _Default_Load(sender As Object, e As EventArgs) Handles Me.Load
        If Me.IsPostBack = False Then
            Dim currency1 As New ListItem
            currency1.Text = "Euro"
            currency1.Value = "0.85"
            Dim currency2 As New ListItem
            currency2.Text = "Japenese Yen"
            currency2.Value = "110.33"
            Dim currency3 As New ListItem
            currency3.Text = "Canadian Dollars"
            currency3.Value = "1.2"
            SelectCurrency.Items.Add(currency1)
            SelectCurrency.Items.Add(currency2)
            SelectCurrency.Items.Add(currency3)
            GraphImage.Visible = False
        End If
    End Sub
    Protected Sub Convert_ServerClick(ByVal sender As Object, ByVal e As
System.EventArgs) Handles Convert.ServerClick
        Dim Amount As Decimal = Val(inputAmount.Value)
        Dim item As ListItem = SelectCurrency.Items(SelectCurrency.SelectedIndex)
        ResultDiv.InnerText = (Amount).ToString() & " US Dollars = " & (Amount *
        Val(SelectCurrency.Value)).ToString() & " " & item.Text
    End Sub
    Protected Sub ShowGraph_ServerClick(ByVal sender As Object, ByVal e As
System.EventArgs) Handles ShowGraph.ServerClick
        GraphImage.Src = "Pic" & SelectCurrency.SelectedIndex.ToString() & ".png"
        GraphImage.Alt = "Currency Graph"
        GraphImage.Visible = True
    End Sub
End Class
```

OUTPUT

Part A) Using Html server controls develop a web form that displays a rectangle {refer to book page 147 4/e}. Write appropriate event handler code that detects the location at which the user has clicked. Part B) Modify code developed in Part (A) to identify regions on the following circle: [Hint:] Use Screen coordinates, Cartesian coordinates and Polar coordinates.

Aspx code

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="prob_B.aspx.vb"
Inherits="lab03_prob_B" %>

<!DOCTYPE html>

<html xmlns="[http://www.w3.org/1999/xhtml](http://www.w3.org/1999/xhtml)">
<head runat="server">
<title></title>
</head>
<body>
<form runat="server">

<input type="image" ID="ImgButton" runat="server" src="circle.png" />
<p style="font-weight: bold" ID="Result" runat="server"></p>

</form>

</body>
</html>
```
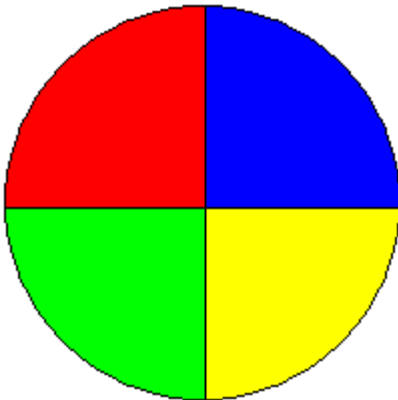
VB.NET

```vbnet
Partial Class lab03_prob_B
    Inherits System.Web.UI.Page
    Private Sub ImgButton_ServerClick(ByVal sender As Object, ByVal e As
ImageClickEventArgs) Handles ImgButton.ServerClick
        If e.Y < 101 And e.Y > 1 And e.X > 0 And e.X < 100 Then
            result.InnerText = "You clicked RED Region."
            result.Style.Add("color", "red")
        ElseIf e.Y < 103 And e.Y > 1 And e.X > 100 And e.X < 197 Then
            result.InnerText = "You clicked BLUE Region."
            result.Style.Add("color", "blue")
        ElseIf e.Y > 101 And e.X < 101 Then
            result.InnerText = "You clicked Green Region."
            result.Style.Add("color", "green")
        ElseIf e.Y > 101 And e.X < 197 Then
            result.InnerText = "You clicked Yellow Region."
            result.Style.Add("color", "yellow")
        End If
    End Sub
End Class
```

Output

You clicked BLUE Region.