**University of Technology, Jamaica**

**School of Computing and Information Technology**

**Enterprise Computing 1**

Lab Test – 1 hour 50 mins

**Buy Laptop scenario**

Create an ASP.NET C# application that allows customers to conduct transactions online. The name of the project solution must be: Students *ID\_LabTest* (e.g. *12345678\_LabTest*). The web application developed will be a one aspx page *(Home.aspx)* that will capture relevant information. Please, implement a Bootstrap feature. For that, use Internet connection or (if no internet connection in the lab) use a living example *04\_FutureValueBootstrap*, which was given to you, by lecturer before. When the customer clicks the “*Submit*” button, the application should calculate the new balance and display it on the same page. Create a user defined C# class (*Account.cs*)that will capture all the information on the form.

* Use appropriate controls where not stated to capture the following fields
* The *calculateBill()* function should be create in your class and should accept as arguments the *laptopBrand(Price)* and the *quantity*.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Class Public Members** | | | | |
| **Name** | **CodeName** | **Datatype** | **Server**  **Control Hint** | **Options** |
| *First name* | *firstName* | *String* | *Use the text box control* | *N/A* |
| *Last name* | *lastName* | *String* | *Use the text box control* | *N/A* |
| *Laptop brand* | *laptopBrand* | *String* | *Select one from a DropDownList, (where Value property is a price, and Text property is an option’s name)* | *HP G71 -55k,*  *Sony H2 -50k,*  *Apple 3 -70k* |
| *Quantity* | *quantity* | *Integer* |  |  |
| *Payment method* | *paymentMethod* | *String* | *Select one of the three (use radio button control)* | *Cash, CreditCard,*  *DebitCard* |
| *Sign up for newsletter* | *newsletter* | *Boolean* | *Optional* |  |

|  |  |  |
| --- | --- | --- |
| **Class Public Methods** | | |
| **Name** | **ReturnType** | **Formula** |
| *calculateBill()* | *Decimal* | *totalBill = laptopBrand (Price) \* quantity* |

**Marking Scheme:**

* *User Defined Class –* ***20 marks***
* *Bootstrap feature –* ***20 marks***
* *Page Layout and Presentation –* ***20 marks***
* *Code Behind –* ***20 marks***
* *Server Controls (DropDownList, RadioButton, CheckBox, TextBox) –* ***20 marks***

**After finishing a test - zip a project folder (not a solution file!) and email to your lab tutor.**

**Note:** You can use any book/internet/living examples resources, except an e-mail for connection to your friends.