In this assignment a PizzaOrder application will be created. The PizzaOrder application is for entering the size and toppings of a pizza so that an order number and price can be generated.

**PizzaOrder Specification**

PizzaOrder allows a user to select a pizza size and toppings, if any. Topping choices include pepperoni, mushrooms, onions, and peppers. Once the order is placed, an order number and the pizza price are displayed. A new order clears the current order information and allows the next order to be generated. The order number should automatically increment with each new order. The following pizza prices and toppings prices should be used:

Regular: $6.00

Large: $10.00

One topping: $1.00 additional

Two toppings: 1.75 additional

Three toppings: $2.50 additional

Four toppings: $3.25 additional

**Pizza Order Design**

Regular

Large

Mushrooms

Pepperoni

Onions

Peppers









Bread Sticks

Cheese Fries

Cookie

Coke









Italian Sub

Tuna Sub

Chicken Parm

Meatball Parm









New Order

Place Order

Select pizza size

Select Toppings

Select Sides

Select Sandwiches

When designing the interface for PizzaOrder the options for selecting the pizza size and toppings need to be considered. For each pizza order there can be only one size, but many toppings. Therefore, radio buttons should be used to select the size and check boxes should be used to select the toppings.

|  |  |  |
| --- | --- | --- |
| **OBJECT** | **NAME** | **TEXT** |
| Form1 |  | Pizza Order |
| GroupBox1 | grpPizzaSize | Select pizza size |
| RadioButton1 | radRegular | Regular |
| RadioButton2 | radLarge | Large |
| GroupBox2 | grpToppings | Select Toppings |
| CheckBox1 | chkPepperoni | Pepperoni |
| CheckBox2 | chkMushrooms | Mushrooms |
| CheckBox3 | chkOnions | Onions |
| CheckBox4 | chkPineapple | Pineapple |
| GroupBox3 | grpSides | Select Sides |
| CheckBox5 | chkCookie | Cookie |
| CheckBox6 | chkCoke | Coke |
| CheckBox7 | chkCheeseFries | CheesFries |
| CheckBox8 | chkBreadSticks | Bread Sticks |
| GroupBox4 | grpSandwiches | Select Sandwiches |
| CheckBox9 | chkMeatBallParm | Meatball Parm |
| CheckBox10 | chkChickenParm | Chicken Parm |
| CheckBox11 | chkTunaSub | Tuna Sub |
| CheckBox12 | chkItalianSub | Italian Sub |
| Button1 | btnPlaceOrder | Place Order |
| Button2 | btnNewOrder | New Order |
| Label1 | lblOrder | *empty* |
| Label2 | lblOrderNumber | *empty* |
| Label3 | lblPrice | *empty* |
| Label4 | lblPizzaPrice | *empty* |

The code design should start with an algorithm such as the one below. Open the button to place the order and insert the following code.

PublicClassfrmPizzaMenu

DimPizzaPriceAsDecimal **=** 0

DimorderNumberAsInteger **=** 0

PublicSubbtnPlaceOrder\_Click**(**ByValsenderAsSystem**.**Object**,** ByValeAsSystem**.**EventArgs**)** HandlesbtnPlaceOrder**.**Click

ConstRegularAsDecimal **=** 7

ConstLargeAsDecimal **=** 10

ConstONE\_TOPPINGAsDecimal **=** 1.0

ConstTWO\_TOPPINGSAsDecimal **=** 1.75

ConstTHREE\_TOPPINGSAsDecimal **=** 2.5

ConstFOUR\_TOPPINGSAsDecimal **=** 3.25

DimnumToppingsAsInteger **=** 0

DimtoppingsPriceAsDecimal **=** 0

'increment the order number

orderNumber **+=** 1

'count selected toppings

IfMe**.**chkMushrooms**.**Checked **=** TrueThen

numToppings **+=** 1

EndIf

IfMe**.**chkOnions**.**Checked **=** TrueThen

numToppings **+=** 1

EndIf

IfMe**.**chkPepperoni**.**Checked **=** TrueThen

numToppings **+=** 1

EndIf

IfMe**.**chkPinnaple**.**Checked **=** TrueThen

numToppings **+=** 1

EndIf

'Determine the toppings Price using a Select Case Statement

SelectCasenumToppings

Case1

toppingsPrice **=** ONE\_TOPPING

Case2

toppingsPrice **=** TWO\_TOPPINGS

Case3

toppingsPrice **=** THREE\_TOPPINGS

Case4

toppingsPrice **=** FOUR\_TOPPINGS

EndSelect

'Display pizza price

IfMe**.**radLarge**.**CheckedThen

PizzaPrice **=** PizzaPrice **+** Large **+** toppingsPrice

Else

PizzaPrice **=** PizzaPrice **+** Regular **+** toppingsPrice

EndIf

'Display pizza price and order number

lblOrder**.**Text **=** "Order Number:"

Me**.**lblOrderNumber**.**Text **=** orderNumber

Me**.**lblPrice**.**Text **=** "Price: $"

Me**.**lblPizzaPrice**.**Text **=** CStr**(**PizzaPrice**)**

EndSub

PublicSubbtnNewOrder\_Click**(**ByValsenderAsSystem**.**Object**,** ByValeAsSystem**.**EventArgs**)** HandlesbtnNewOrder**.**Click

'When a new order is started, select the regular radio button and clear the check boxes and labels

PizzaPrice **=** 0

orderNumber **=** 0

Me**.**radLarge**.**Checked **=** False

Me**.**radRegular**.**Checked **=** False

Me**.**chkPinnaple**.**Checked **=** False

Me**.**chkMushrooms**.**Checked **=** False

Me**.**chkOnions**.**Checked **=** False

Me**.**chkPepperoni**.**Checked **=** False

Me**.**lblOrder**.**Text **=** ""

Me**.**lblOrderNumber**.**Text **=** ""

Me**.**lblPrice**.**Text **=** ""

Me**.**lblPizzaPrice**.**Text **=** ""

EndSub

EndClass