' Michael Voell

' Galaxy Hotel

' 1/7/2016

' Purpose: To compute the occupancy rate of the Galaxy Hotel.

Option Strict On

Public Class frmGalaxyHotel

Private Sub btwShowFloors\_Click(sender As System.Object, e As System.EventArgs) Handles btwShowFloors.Click

' Declaring variables

Dim strOccupied As String

Dim strVacant As String

Dim intOccFloors As Integer

Dim intOccTotal As Integer

Dim intVacFloors As Integer

Dim intVacTotal As Integer

Dim intTotal As Integer

Dim decAverage As Decimal

Dim intMaxFloors As Integer = 7

For intFloor = 1 To intMaxFloors

strOccupied = InputBox("How many rooms are occupied on floor " & intFloor & "?", "Floor " & intFloor & "", "")

strVacant = InputBox("How man rooms are vacant on floor " & intFloor & "?", "Floor " & intFloor & "", "")

If IsNumeric(strOccupied) = True Then

intOccFloors = Convert.ToInt32(strOccupied)

If intOccFloors >= 0 Then

Else

MsgBox("Input must be positive numbers only", MsgBoxStyle.Exclamation, "Bad Input")

End If

Else

MsgBox("Input must be numbers only", MsgBoxStyle.Exclamation, "Bad Input")

intFloor = intFloor - 1

End If

If IsNumeric(strVacant) = True Then

intVacFloors = Convert.ToInt32(strVacant)

If intVacFloors >= 0 Then

Else

MsgBox("Input must be positive numbers only", MsgBoxStyle.Exclamation, "Bad Input")

End If

Else

MsgBox("Input must be numbers only", MsgBoxStyle.Exclamation, "Bad Input")

intFloor = intFloor - 1

End If

lstFloors.Items.Add("Floor: " & intFloor & ". Occupied: " & intOccFloors)

lstFloors.Items.Add("Floor: " & intFloor & ". Vacant: " & intVacFloors)

intVacTotal += intVacFloors

intOccTotal += intOccFloors

intTotal = intVacFloors + intOccFloors + intTotal ' Accumulator

Next

' Calculations

decAverage = CDec(intOccTotal / intTotal)

' Output

lblFloorAverageOutput.Text = FormatPercent(decAverage)

lblTotalRoomsOutput.Text = intTotal.ToString()

lblOccupiedRoomsOutput.Text = intOccTotal.ToString()

lblVacantRoomsOutput.Text = intVacTotal.ToString()

End Sub

Private Sub lblFloorAverage\_Click(sender As System.Object, e As System.EventArgs) Handles lblFloorAverage.Click

End Sub

End Class



