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Title: Mar 20-12:29 PM (1 of 34)
Public Class frmDept
    Inherits System.Windows.Forms.Form
    Dim deptArray() As String

    Windows Form Designer generated code

    Private Sub btnDept_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnDept.Click
        txtDeptName.Text = deptArray(CInt(txtDept.Text))
    End Sub

    Private Sub frmDept_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
        deptArray(0) = "Toys"
        deptArray(1) = "Gifts"
        deptArray(2) = "Cookware"
    End Sub

    Private Sub btnCheckDept_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnCheckDept.Click
        If IsNumeric(txtDept.Text) Then
            If CInt(txtDept.Text) <> 3 Then
                txtDeptName.Text = deptArray(CInt(txtDept.Text))
            Else
                txtDeptName.Text = "Invalid Department Number"
            End If
        Else
            txtDeptName.Text = "Non-numeric Department Number"
        End If
    End Sub
End Class
Public Class frmDept
    Inherits System.Windows.Forms.Form
    Dim deptArray(3) as String

    Windows Form Designer generated code

    Private Sub btnDept_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnDept.Click
        txtDeptName.Text = deptArray(CInt(txtDeptText.Text))
    End Sub

    Private Sub FrmDept_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
        deptArray(0) = "Books"
        deptArray(1) = "Toys"
        deptArray(2) = "Gifts"
        deptArray(3) = "Computer"
    End Sub

    Private Sub btnCheckDept_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnCheckDept.Click
        If IsNumeric(txtDeptText.Text) Then
            If CInt(txtDeptText.Text) <= 3 Then
                txtDeptName.Text = deptArray(CInt(txtDeptText.Text))
            Else
                txtDeptName.Text = "Invalid Department Number"
            End If
        Else
            txtDeptName.Text = "Non-numeric Department Number"
        End If
    End Sub
End Class

- Books
- Toys
- Gifts
- Computer
Public Class frmDept
  Inherits System.Windows.Forms.Form
  Dim deptArray() As String

  Windows Form Designer generated code

  Private Sub btnDept_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnDept.Click
    txtDeptName.Text = deptArray(CInt(txtDept.Text))
  End Sub

  Private Sub frmDept_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Me.Load
    deptArray(0) = "Books"
    deptArray(1) = "Toys"
    deptArray(2) = "Gifts"
    deptArray(3) = "Computer"
  End Sub

  Private Sub btnCheckDept_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnCheckDept.Click
    If IsNumeric(txtDept.Text) Then
      If CInt(txtDept.Text) <= 3 Then
        deptArrayName.Text = deptArray(CInt(txtDept.Text))
      Else
        txtDeptName.Text = "Invalid Department Number"
      End If
    Else
      txtDeptName.Text = "Non-numeric Department Number"
    End If
  End Sub
End Class
This check does not catch negative numbers.
```vbnet
Private Sub btnDept_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnDept.Click
    Dim deptArray As String

    Private Sub frmDept_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
        deptArray = "Books"
        deptArray(1) = "Toys"
        deptArray(2) = "Gifts"
        deptArray(3) = "Cookware"
    End Sub

    Private Sub btnCheckDept_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnCheckDept.Click
        If IsNumeric(txtDept.Text) Then
            If CInt(txtDept.Text) < 4 Then
                txtDeptName.Text = deptArray(CInt(txtDept.Text))
            Else
                txtDeptName.Text = "Invalid Department Number"
            End If
        Else
            txtDeptName.Text = "Non-numeric Department Number"
        End If
    End Sub
End Class
```
Could be done in the regular code - I put it in a module to illustrate use of a module.
Private Sub btnCheckDept_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnCheckDept.Click
    If IsNumeric(txtDept.Text) Then
        If CInt(txtDept.Text) <> 3 Then
            txtDeptName.Text = deptArray(CInt(txtDept.Text))
        Else
            txtDeptName.Text = "Invalid Department Number"
        End If
    Else
        txtDeptName.Text = "Non-numeric Department Number"
    End If
End Sub
Private Sub btnGetPrice_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnGetPrice.Click
    Dim fromPtr As Integer, toPtr As Integer, wPrice As Single
    Dim wMsg As String
    If IsNumeric(txtFrom.Text) And CInt(txtFrom.Text) < 4 Then
        fromPtr = CInt(txtFrom.Text)
    Else
        wMsg = "From City is not valid, To City is not valid"
        Exit Sub
    End If
    If IsNumeric(txtTo.Text) And CInt(txtTo.Text) < 3 Then
        toPtr = CInt(txtTo.Text)
    Else
        wMsg = "From City is not valid, To City is not valid"
        Exit Sub
    End If
    wPrice = priceArray(fromPtr, toPtr)
    wMsg = "The price to fly from " & CStr(fromCity(fromPtr)) & " to " & CStr(toCity(toPtr)) & " is " & FormatCurrency(wPrice)
    txtFare.Text = wMsg
End Sub
Public Class frmArray
    Inherits System.Windows.Forms.Form
    Dim budgetArray(5) As Decimal

    Private Sub btnGetData_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnGetData.Click
        Dim i As Integer
        Dim wInfo As String
        For i = 0 To 5
            budgetArray(i) = InputBox("Enter budget for Dept " & i & ", Dept Budget")
            wInfo = "Department " & i & ", Dept Budget = " & FormatCurrency(budgetArray(i))
            lstShow.Items.Add(wInfo)
        Next
    End Sub

    Private Sub btnProcess_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnProcess.Click
        Dim wkDeptBudget As Decimal
        Dim wkTotBudget As Decimal
        For Each wkDeptBudget In budgetArray
            wkTotBudget = wkTotBudget + wkDeptBudget
        Next
        txtTotal.Text = FormatCurrency(wkTotBudget)
    End Sub
End Class
Public Class frmArray
    Inherits System.Windows.Forms.Form
    Dim budgetArray(6) As Decimal

    Windows Form Designer generated code

    Private Sub btnGetData_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnGetData.Click
        Dim i As Integer
        Dim wkInfo As String
        budgetArray(0) = 0
        For i = 1 To 6
            budgetArray(i) = InputBox("Enter budget for Dept " & i & ", Dept Budget")
            wkInfo = "Department " & i & ": " & FormatCurrency(budgetArray(i))
            lstWw.Items.Add(wkInfo)
        Next
    End Sub

    Private Sub btnProcess_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnProcess.Click
        Dim wkDeptBudget As Decimal
        Dim wkTotBudget As Decimal
        For Each wkDeptBudget In budgetArray
            wkTotBudget = wkTotBudget + wkDeptBudget
        Next
        txtTotal.Text = FormatCurrency(wkTotBudget)
    End Sub

End Class
Public Class frmSoup
    Inherits System.Windows.Forms.Form
    Dim itemArray(7) As String

    Windows Form Designer generated code

    Private Sub frmSoupCreate_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
        itemArray(0) = "BROTH"
        itemArray(1) = "2CORN CHOWDER"
        itemArray(2) = "12OZ CHOWDER"
        itemArray(3) = "CTOPATO SOUP"
        itemArray(4) = "ZACHICKEN SOUP"
        itemArray(5) = "2VEGETABLE SOUP"
        itemArray(6) = "2MINION SOUP"
        itemArray(7) = "2MINION PEA SOUP"
        itemArray(8) = "2MINION SOUP"
        FileOpen1("soup", FileMode.Open, Input)
    End Sub

    Private Sub btnClear_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnClear.Click
        txtOrderNo.Clear()
        txtItemNo.Clear()
    End Sub

    Private Sub btnExit_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnExit.Click
        FileClose1()
        Me.Close()
    End Sub

    Private Sub btnRead_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnRead.Click
        Dim wkOrderNo As Integer, wkItemNo As Integer
        Dim wPosOrder As Long
        IF Not wPosOrder(1) Then
            Input1(1, wkOrderNo)
            Input1(1, wkItemNo)
            Input1(1, wkOrderNo)
            Input1(1, wkOrderNo)
            txtOrderNo.Text = wkOrderNo
            txtItemNo.Text = wkItemNo
            MessageBox.Show("TOP reached")
            Me.Read.Visible = False
        End If
    End Sub

    Function SearchArray(ByVal ByVal wkItemNo) As Integer
        Dim posSub As Integer = 0
...
Public Class frmSoup
    Inherits System.Windows.Forms.Form
    Dim itemarray(6) As String
End Class

Private Sub frmSoupCreateLoad(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
    itemarray(0) = "03SKOWPOOD CHOWDER"
    itemarray(1) = "12CORN CHOWDER"
    itemarray(2) = "11SCALLOP CHOWDER"
    itemarray(3) = "17TOMATO SOUP"
    itemarray(4) = "24CHICKEN SOUP"
    itemarray(5) = "29VEGETABLE SOUP"
    itemarray(6) = "27MINTON SOUP"
    itemarray(7) = "28BANANA PIE SOUP"
    itemarray(8) = "35WORTON SOUP"
End Sub

Private Sub btnClear_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnClear.Click
    txtOrderNo.Clear()
    txtItemNo.Clear()
End Sub

Private Sub btnExit_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnExit.Click
    FileClose()
    Me.Close()
End Sub

Private Sub btnRead_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnRead.Click
    Dim wOrderNo As Integer, wItemNo As Integer
    If Not EOF(1) Then
        Input(1, wOrderNo)
        Input(1, wItemNo)
        txtOrderNo.Text = wOrderNo
        txtItemNo.Text = wItemNo
        txtSumOrd.Text = SearchArray(wItemNo)
        txtSumItem.Text = SearchArray(wItemNo)
    Else
        MessageBox.Show("EOF reached")
        btnRead.Visible = False
    End If
End Sub

Function SearchArray(ByVal y As Integer) As String
    Dim wItemNo As Integer
    For wItemNo = 1 To 8
        If y = itemarray(wItemNo) Then
            Return itemarray(wItemNo) + " Order: " + txtOrderNo.Text
        End If
    Next wItemNo
End Function
Partial code snippet:

```vbnet
Private Sub btnExit_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnExit.Click
    fileClose()
    Me.Close()
End Sub

Private Sub btnRead_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnRead.Click
    Dim wOrderNo As Integer, wItemNo As Integer
    Dim wItemOrd As Integer
    If Not EOF(1) Then
        Input(1, wOrderNo)
        Input(1, wItemNo)
        Input(1, wItemOrd)
        txtOrderNo.Text = wOrderNo
        txtItemNo.Text = wItemNo
        txtNumOrd.Text = wItemOrd
        txtItemName.Text = SearchArray(wItemNo)
    Else
        MessageBox.Show("EOF reached")
        btnRead.Visible = False
    End If
End Sub

Function SearchArray(ByVal wItemNo As Integer) As String
    Dim itemSub As Integer = 0
    Dim matchInd As String = "NO"
    Do Until itemSub > 0 Or matchInd = "YES"
        If itemSub = Microsoft.VisualBasic.Left(ItemArray(itemSub), 2) Then
            If wItemNo = ItemArray(itemSub) Then
                matchInd = "YES"
            Else
                itemSub = itemSub + 1
            End If
        Loop
        If matchInd = "YES" Then
            Return Microsoft.VisualBasic.Mid(ItemArray(itemSub), 3)
        Return ItemArray(itemSub).Substring(2)
    Else
        Return "Match Not Found"
    End If
End Function
End Class
```
45 Wonton Soup

Start 2nd and go to end
Public Class frmDept
    Inherits System.Windows.Forms.Form
    Dim deptNumArray(3) As Integer
    Dim deptArray(3) As String
    Windows Form Designer generated code

    Private Sub frmDept_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
        deptNumArray(0) = 15
        deptNumArray(1) = 37
        deptNumArray(2) = 56
        deptArray(0) = "Books"
        deptArray(1) = "Toys"
        deptArray(2) = "Gifts"
        deptArray(3) = "Cookware"
    End Sub

    Private Sub btnSearch_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnSearch.Click
        Dim indFound As String = "X"
        Dim wksub As Integer = 0
        Do While indFound = "X"
            wksub = wksub + 1
            If cls1(textDeptNum.Text) = deptNumArray(wksub) Then
                indFound = "y"
                Exit Do
            Else
            End If
        Loop
        If indFound = "y" Then
            lblShowDeptName.Text = deptArray(wksub)
        Else
            lblShowDeptName.Text = "No match found"
        End If
    End Sub
End Class
I should not have said enter 0 - 3 (too much copy and paste)
I should have said enter 15, 26, 37, or 56