```vb
'Program name: Chef Shack Food Truck Depreciation Windows Application
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'Date:         Feb 05, 2023
'Purpose:      The Chef Shack Inventory Windows Application determines
'              the depreciation based in a 5 year life of items in inventory
'              using the striaght-line and doble-declining balance methods

Option Strict On
Public Class frmDepreciation
    'Class level private variables
    Private _intLifeOfItems As Integer = 5
    Public Shared _intSizeOfArray As Integer = 7
    Public Shared _strInventoryItem(_intSizeOfArray) As String
    Private _strItemId(_intSizeOfArray) As String
    Private _decInitialPrice(_intSizeOfArray) As Decimal
    Private _intQuantity(_intSizeOfArray) As Integer
    Private Sub frmDepreciation_Load(sender As Object, e As EventArgs) Handles
      MyBase.Load
        'The frmDepreciation load event reads the inventory text file and
        'fills the list box object with the inventory items

        'Initialize an instance of the StreamReader object and declare variables
        Dim objReader As IO.StreamReader
        Dim strLocationAndNameOfFile As String = "C:\Users\HP\source\repos
          \JuanFlores_FinalProject\inventory.txt"
        Dim intCount As Integer = 0
        Dim intFill As Integer
        Dim strFileError As String = "The File is  not available. Restart when
          the file is available"

        'Verify the file exists
        If IO.File.Exists(strLocationAndNameOfFile) Then
            objReader = IO.File.OpenText(strLocationAndNameOfFile)
            'Read the file line by line until the file is completed
            Do While objReader.Peek <> -1
                _strInventoryItem(intCount) = objReader.ReadLine()
                _strItemId(intCount) = objReader.ReadLine()
                _decInitialPrice(intCount) = Convert.ToDecimal(objReader.ReadLine
                  ())
                _intQuantity(intCount) = Convert.ToInt32(objReader.ReadLine())
                intCount += 1
            Loop
            objReader.Close()

            'The ListBoxObject is filled with the Inventory IDs
            For intFill = 0 To (_strItemId.Length - 1)
                lstInventoryId.Items.Add(_strItemId(intFill))
            Next
        Else
            MsgBox(strFileError,, "Error")
            Close()
        End If
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49      End Sub
50
51      Private Sub btnCalculateDepreciation_Click(sender As Object, e As EventArgs)
          Handles btnCalculateDepreciation.Click
52          'The btnCalculateDepreciation_Click event calls the depreciation sub
              procedures
53          'Declare variables
54          Dim intSelectedItemId As Integer
55          Dim strMissingSelection As String = "Missing Selecrtion"
56          Dim strSelectDepreciationError As String = "Select a Depreciation method"
57          Dim strSelectInventoryItemIDError As String = "Select an Inventory Ited
              ID"
58
59          'If the listbox and depreciation radio button are selected
60          'then call the depreciation procedures
61
62          If lstInventoryId.SelectedIndex >= 0 Then
63              intSelectedItemId = lstInventoryId.SelectedIndex
64              If radStraightLine.Checked Then
65                  StraightLineDepreciation(intSelectedItemId)
66              ElseIf radDoubleDeclining.Checked Then
67                  DoubleDecliningDepreciation(intSelectedItemId)
68              Else
69                  MsgBox(strSelectDepreciationError,, strMissingSelection)
70              End If
71          Else
72              MsgBox(strSelectInventoryItemIDError,, strMissingSelection)
73          End If
74
75      End Sub
76      Private Sub StraightLineDepreciation(ByVal intItemId As Integer)
77          'This sub procedure computes and displays the straight line depreciation
              for the item selected
78          'Declare variables
79          Dim intStraightPresentYear As Integer
80          Dim decStraighPresentYearValue As Decimal = 0D
81          Dim decStraighDepreciation As Decimal
82          Dim decStraighTotal As Decimal
83          Dim strDepreciationItem As String = "The depreciation of the item: "
84          Dim strQuantityMessage As String = "Quantity:"
85
86          'The procedure MakeObjectVisible is called to display the fore objects
87          MakeObjectsVisible()
88          'Display the iotem and quantity of the selected item
89          lblItem.Text = strDepreciationItem & _strInventoryItem(intItemId)
90          lblQuantity.Text = strQuantityMessage & _intQuantity(intItemId).ToString
              ()
91          'The formmula for straght-line depreciation
92          decStraighDepreciation = _decInitialPrice(intItemId) / _intLifeOfItems
93          decStraighPresentYearValue = _decInitialPrice(intItemId)
94
95          'the loop repeats for the life of items
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96          For intStraightPresentYear = 1 To _intLifeOfItems
97              'Accumulates the total of depreciation
98              decStraighTotal += decStraighDepreciation
99              'Display the depreciation amounts
100             lstYear.Items.Add(intStraightPresentYear.ToString())
101             lstPresentValue.Items.Add(decStraighPresentYearValue.ToString("C"))
102             lstYearDepreciation.Items.Add(decStraighDepreciation.ToString("C"))
103             lstTotalDepreciation.Items.Add(decStraighTotal.ToString("C"))
104             decStraighPresentYearValue += decStraighDepreciation
105         Next
106
107     End Sub
108
109     Private Sub DoubleDecliningDepreciation(ByVal intItemId As Integer)
110         'This sub procedure computes and displays the double declining
111         'balance  for the item selected
112
113         'Declare variables
114         Dim intDoublePresentYear As Integer
115         Dim decDoublePresentYearValue As Decimal = 0D
116         Dim decDoubleDepreciation As Decimal
117         Dim decDoubleTotal As Decimal
118
119         'The procedure MakeObjectVisible is called to display the fore objects
120         MakeObjectsVisible()
121
122         'Display item and quantity of the selected item
123         lblItem.Text = "The depreciation of the item: " & _strInventoryItem
              (intItemId)
124         lblQuantity.Text = "Quantity: " & _intQuantity(intItemId).ToString()
125         decDoublePresentYearValue = _decInitialPrice(intItemId)
126
127         'the loop repeats for the life of items
128         For intDoublePresentYear = 1 To _intLifeOfItems
129             'The formula for double declining depreciation inside the loop to
                  repeat the process
130             decDoubleDepreciation = (decDoublePresentYearValue * 20) /
                  _intLifeOfItems
131             'Accumulate the total of depreciation
132             decDoubleTotal += decDoubleDepreciation
133             'Display the depreciation amounts
134             lstYear.Items.Add(intDoublePresentYear.ToString())
135             lstPresentValue.Items.Add(decDoublePresentYearValue.ToString("C"))
136             lstYearDepreciation.Items.Add(decDoublePresentYearValue.ToString
                  ("C"))
137             lstTotalDepreciation.Items.Add(decDoubleTotal.ToString("C"))
138             decDoublePresentYearValue += decDoubleDepreciation
139         Next
140     End Sub
141
142     Private Sub MakeObjectsVisible()
143         'This procedure displays the objects showing the results
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144         lblItem.Visible = True
145         lblQuantity.Visible = True
146         lblYear.Visible = True
147         lstYear.Visible = True
148         lblPresentValue.Visible = True
149         lstPresentValue.Visible = True
150         lblYearDepreciation.Visible = True
151         lstYearDepreciation.Visible = True
152         lblTotalDepreciation.Visible = True
153         lstTotalDepreciation.Visible = True
154         'The previus data is removed
155         lstYear.Items.Clear()
156         lstPresentValue.Items.Clear()
157         lstYearDepreciation.Items.Clear()
158         lstTotalDepreciation.Items.Clear()
159
160     End Sub
161
162     Private Sub mnuDisplay_Click(sender As Object, e As EventArgs) Handles
          mnuDisplay.Click
163         'The mnuDisplay_Click event creates an instance of of the
              frmDisplayInventory
164         Dim frmSecond As New frmDisplayInventory
165         'Hide this form and show the Display Inventory Form
166         Hide()
167         frmSecond.ShowDialog()
168     End Sub
169
170     Private Sub mnuClear_Click(sender As Object, e As EventArgs) Handles
          mnuClear.Click
171         'the mnuClear_Click event clears and resets the form
172         lstInventoryId.SelectedIndex = -1
173         radStraightLine.Checked = False
174         radDoubleDeclining.Checked = False
175         lblItem.Visible = False
176         lblQuantity.Visible = False
177         lblYear.Visible = False
178         lstYear.Visible = False
179         lstYear.Items.Clear()
180         lblPresentValue.Visible = False
181         lstPresentValue.Visible = False
182         lstPresentValue.Items.Clear()
183         lblYearDepreciation.Visible = False
184         lstYearDepreciation.Visible = False
185         lstYearDepreciation.Items.Clear()
186         lblTotalDepreciation.Visible = False
187         lstTotalDepreciation.Visible = False
188         lstTotalDepreciation.Items.Clear()
189
190     End Sub
191
192     Private Sub mnuExit_Click(sender As Object, e As EventArgs) Handles
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        mnuExit.Click
193         'The mnuExit_Click event closes the application
194         Application.Exit()
195
196     End Sub
197 End Class
198
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