Pseudocode for Project: Bates 9-11

Imports System.IO

**First we create a Structure called Customer Information:**

Declare the following variables in the Structure:

Dim strFirstName as String

Dim strLastName as String

Dim strAddress as String

Dim strCity as String

Dim strState as String

Dim strZipCode as String

Dim strPhone as String

Dim strCustomerNumber as String

Dim dblAccountBalance as Double

Dim strDate as String

**We declare the following class level variables:**

Dim customerInfo as Customer Information

Dim strFilename as String

**We create the Function ValidateInput as Boolean:**

If any of the textboxes are empty, the function will return false, example:

If txtAddress.Text = String.Empty Then

Return False

Etc. for all of the text boxes except the search textbox

**For the Create Customer Record Button:**

Dim customerFile as StreamWriter

Dim customerInfo as Customer Information

**In Try Catch Statement:**

**Try**

customerInfo.strFirstName = txtFirst.Text.ToString()

customerInfo.strLastName = txtLast.Text.ToString()

customerInfo.strAddress = txtAddress.Text.ToString()

customerInfo.strCity = txtCity.Text.ToString()

customerInfo.strState = txtState.Text.ToString()

customerInfo.strZipCode = txtZip.Text.ToString()

customerInfo.strPhone = txtPhone.Text.ToString()

customerInfo.strCustomerNumber = txtCustNumber.Text.ToString()

customerInfo.dblAccountBalance = Cdbl(txtAccountBalance.Text)

customerInfo.strDate = txtDateLastPymt.Text.ToString()

**In an If Then Statement:**

**If ValidateInput() and customerInfo.dblAccountBalance > 0 Then**

strFilename = InputBox(“Enter the file name for your customer information.”)

customerFile = File.AppendText(strFilename)

customerFile.WriteLine(customerInfo.strFirstName & “ “ & customerInfo.strLastName

customerFile.WriteLine(customerInfo.strAddress)

customerFile.WriteLine(customerInfo.strCity & “, “ & customerInfo.strState & customerInfo.strZipCode)

customerFile.WriteLine(“Phone Number: “ & customerInfo.strPhone)

customerFile.WriteLine(“Customer Number: “ & customerInfor.strCustomerNumber)

customerFile.WriteLine(“Account Balance: “ & customerInfo.dblAccountBalance.ToString(“c”)

customerFile.WriteLine(“Date of Last Payment: “ & customerInfo.strDate)

customerFile.WriteLine() – skip line to separate customers

customerFile.Close()

**Else**

MessageBox.Show(“Please make sure all fields are entered and the account balance is positive.”)

**End If**

**Catch**

MessageBox.Show(“Please make sure all fields are entered and the account balance is positive.”)

**End Try**

**For the Show Customer File Above Button:**

Dim customerFile as StreamReader

Dim strOutput as String

strFilename = InputBox(“Enter the file name you wish to open.”)

**In Try Catch Statement:**

**Try**

customerFile = File.OpenText(strFilename)

lstCustomers.Items.Clear

**In a Do Until Loop:**

Do Until customerFile.EndOfStream

strOutPut = customerFile.ReadLine()

lstCustomers.Items.Add(strOutput)

Loop

customerFile.Close()

**Catch**

MessageBox.Show(“That file cannot be opened.”)

**End Try**

**For the Clear Customer Input Button:**

This Button will clear all of the text boxes and reset the focus to the First Name text box.

**For the Print Page Event Handler:**

Dim customerFile as StreamReader

Dim intX as Integer = 10

Dim intY as Integer = 10

**In a Try Catch Statement:**

**Try**

customerFile = File.OpenText(strFilename)

**In a Do While Loop:**

Do While Not customerFile.EndOfStream

e.Graphics.DrawString(customerFile.ReadLine(), New Font(“MS Sans Serif”, 12, FontStyle.Regular), Brushes.Black, intX, intY)

intY += 18

Loop

customerFile.Close()

**Catch**

MessageBox.Show(“Please select a document to print.”)

**End Try**

**In the mnuFilePrint Event Handler:**

pdPrint.Print()

**For the Search Button:**

**Declare a validation flag:**

Dim blnValidateSearch as Boolean = True

**De-select any item in the listbox:**

lstCustomers.SelectedIndex = -1

**Validate the search textbox:**

If txtSearch.Text = String.Empty Then

blnValidateSearch = False

MessageBox.Show(“Please enter a last name or customer number.”)

End If

If blnValidateSearch = True Then

Dim intCount as Integer = (lstCustomers.Items.Count – 1)

Dim strSearch as String

For a = 0 to intCount

strSearch = lstCustomers.Items.Item(a).ToString()

If CBool(InStr(strSearch.ToLower, txtSearch.Text.ToLower)) Then

lstCustomers.SelectedItem = strSearch

End If

Next

If lstCustomers.SelectedIndex = -1 Then

MessageBox.Show(“Item could not be found.”)

End If

End If

**For the Clear List Button:**

Clear the list box

**For the Exit Button:**

Exits the application

**For the About Menu Item Under Help:**

About.ShowDialog()

**For the CustomerRecords Load Event Handler (for the splashscreen):**

System.Threading.Thread.Sleep(3000)

**For the Exit Menu Item Under File:**

Application.Exit()