|  |  |
| --- | --- |
| Program: Joe’s Automotive | Date: 7/12/2022 |

|  |  |  |
| --- | --- | --- |
| Method : OilLubeCharges | | Method Type: Out |
| Input | Processing | Output |
| N/A | Check if oilChangeCheckBox & LubeJobCheckBox are checked. If so, use field constants to add value to the variable totalOilLubeCharges | totalOilLubeCharges |

|  |  |  |
| --- | --- | --- |
| Method : FlushCharges | | Method Type: Out |
| Input | Processing | Output |
| N/A | Check if radiatorFlushCheckBox & transmissionFlushCheckBox are checked. If so, use field constants to add value to the variable totalFlushCharges | totalFlushCharges |

|  |  |  |
| --- | --- | --- |
| Method : MiscCharges | | Method Type: Out |
| Input | Processing | Output |
| N/A | Check if inspectionCheckBox, replaceMufflerCheckBox, & tireRotationCheckBox are checked. If so, use field constants to add value to the variable totalMiscCharges | totalMiscCharges |

|  |  |  |
| --- | --- | --- |
| Method : OtherCharges | | Method Type: Out |
| Input | Processing | Output |
| N/A | Check for Text values in the partsTextBox & laborTextBox, implement TryParse and if/else to ensure that valid data is entered. Letters, symbols & negative numbers are not allowed. If the user enters bad data, inform them via MessageBox, and set appropriate variable ( partsCharge &/or laborCharge) = -1. The calculateButton\_Click event handler will ensure that data is not populated into labels for the user to see if a value of -1 is returned. | partsCharge  laborCharge |

|  |  |  |
| --- | --- | --- |
| Method : TaxCharges | | Method Type: Out |
| Input | Processing | Output |
| totalPartsCharge | Calculate the tax charge by multiplying totalPartsCharge by the field constant TAX | taxOnParts |

|  |  |  |
| --- | --- | --- |
| Method : TotalCharges | | Method Type: Out |
| Input | Processing | Output |
| totalOilLubeCharges, totalFlushCharges  totalMiscCharges, totalPartsCharge  totalLaborCharge, taxOnLabor | Calculate the totalCharges by adding all of the input variables | totalCharges |

|  |  |  |
| --- | --- | --- |
| Method : ServicesAndLabor | | Method Type: Out |
| Input | Processing | Output |
| totalCharges  taxOnParts  totalPartsCharges | Calculate the total charges for services and labor by subtracting taxOnParts & totalPartsCharges from totalCharges | servicesAndLaborTotal |

|  |  |  |
| --- | --- | --- |
| Method : PopulateLabels | | Method Type: Void |
| Input | Processing | Output |
| servicesAndLaborTotal  totalPartsCharges  taxOnParts  totalCharges | Populate the Text properties of the following labels:  servicesAndLaborDisplayLabel  partsSummaryDisplayLabel  taxDisplayLabel  totalFeesDisplayLabel | N/A |

|  |  |  |
| --- | --- | --- |
| Method : ClearOilLube | | Method Type: Void |
| Input | Processing | Output |
| N/A | Set the Checked property to false for the following:  oilChangeCheckBox  lubeJobCheckBox | N/A |

|  |  |  |
| --- | --- | --- |
| Method : ClearFlushes | | Method Type: Void |
| Input | Processing | Output |
| N/A | Set the Checked property to false for the following:  radiatorFlushCheckBox  transmissionFlushCheckBox | N/A |

|  |  |  |
| --- | --- | --- |
| Method : ClearMisc | | Method Type: Void |
| Input | Processing | Output |
| N/A | Set the Checked property to false for the following:  inspectionCheckBox  replaceMufflerCheckBox  tireRotationCheckBox | N/A |

|  |  |  |
| --- | --- | --- |
| Method : ClearOther | | Method Type: Void |
| Input | Processing | Output |
| N/A | Set the Text properties for the following to Null ( = “”)  partsTextBox  laborTextBox | N/A |

|  |  |  |
| --- | --- | --- |
| Method : ClearFees | | Method Type: Void |
| Input | Processing | Output |
| N/A | Set the Text properties for the following to Null ( = “”)  servicesAndlLaborDisplayLabel  partsSummaryDisplayLabel  taxDisplayLabel  totalFeesDisplayLabel | N/A |