```
                    Municipal Water Company
                     16432 Oakmont Avenue
                       Freeport, Maine
                    Monthly Billing Charges

Customer        Previous        Current         Resident        Current
Number          Reading         Reading         Code            Charge
--------------------------------------------------------------------------
X1010           1141            1191            1               $18.25
P2100           1252            1475            2               $105.23
R1135           1363            1383            2               $13.35
B4510           1474            1496            1               $9.64
D2911           1696            1748            1               $18.85
F2222           1707            1729            2               $14.46
W1201           2252            2417            2               $79.13
```

```vbnet
Module Module1

    Sub Main()
        'Programmer: Gabby Clemente
        'Date: 12/19/18
        'Purpose: Read Data file

        Dim filepath As IO.TextReader = IO.File.OpenText("Simplex Design.txt")
        Dim stringline As String
        Dim field_end As String = ","
        Dim field(3) As String
        Dim previous_reading, current_reading, resident_code As Integer
        Dim customer_number As String
        Dim units_used As Double
        Dim current_charge As Double
        Dim charge As Double

        Console.WriteLine("                    Municipal Water Company")
        Console.WriteLine("                     16432 Oakmont Avenue")
        Console.WriteLine("                       Freeport, Maine")
        Console.WriteLine("                    Monthly Billing Charges")
        Console.WriteLine()
        Console.WriteLine("Customer" & ControlChars.Tab & "Previous" & ControlChars.Tab &
"Current" & ControlChars.Tab & ControlChars.Tab & "Resident" & ControlChars.Tab &
"Current")
        Console.WriteLine("Number" & ControlChars.Tab & ControlChars.Tab & "Reading" &
ControlChars.Tab & ControlChars.Tab & "Reading" & ControlChars.Tab & ControlChars.Tab &
"Code" & ControlChars.Tab & ControlChars.Tab & "Charge")
        Console.WriteLine("-----------------------------------------------------------
------------")

        Do While filepath.Peek > -1
            stringline = filepath.ReadLine()
            field = stringline.Split(field_end)
            customer_number = field(0)
            previous_reading = field(1)
            current_reading = field(2)
            resident_code = field(3)
```

```vbnet
            units_used = current_reading - previous_reading

            If units_used <= 25 Then
                charge = (units_used * 0.37) + 1.5
            End If

            If units_used > 25 Then
                charge = ((25 * 0.37) + ((units_used - 25) * 0.3)) + 1.5
            End If

            If resident_code = 2 Then
                current_charge = charge * 1.5
            End If

            If resident_code = 1 Then
                current_charge = charge
            End If

            Console.WriteLine(customer_number & ControlChars.Tab & ControlChars.Tab &
previous_reading & ControlChars.Tab & ControlChars.Tab & current_reading &
ControlChars.Tab & ControlChars.Tab & resident_code & ControlChars.Tab & ControlChars.Tab
& FormatCurrency(current_charge))

        Loop
    End Sub

End Module

Module Module1

    Sub Main()
        'Programmer: Gabby Clemente
        'Date: 12/19/18
        'Purpose: Read Data file
        Dim filepath As IO.StreamWriter = New IO.StreamWriter("Simplex Design.txt")
        Dim customer_number As String
        Dim previous_reading, current_reading, resident_code As Integer
        Dim i As Integer
        Dim field_end As String = ","
        For i = 0 To 6
            Console.Write("Please enter Customer Number: ")
            customer_number = Console.ReadLine()
            Console.Write("Please enter Previous Reading: ")
            previous_reading = Console.ReadLine()
            Console.Write("Please enter Current Reading: ")
            current_reading = Console.ReadLine()
            Console.Write("Please enter Resident Code: ")
            resident_code = Console.ReadLine()
            Console.WriteLine()
            filepath.Write(customer_number & field_end)
            filepath.Write(previous_reading & field_end)
            filepath.Write(current_reading & field_end)
            filepath.WriteLine(resident_code)
        Next i
        filepath.Close()
    End Sub
End Module
```

```
                        Municipal Water Company
                         16432 Oakmont Avenue
                           Freeport, Maine
                      City Resident Billing Charges

Customer          Previous          Current          Resident          Current
Number            Reading           Reading          Code              Charge
-----------------------------------------------------------------------------
X1010             1141              1191             1                 $18.25
B4510             1474              1496             1                 $9.64
D2911             1696              1748             1                 $18.85
```

```vb
Module Module1

    Sub Main()
        'Programmer: Gabby Clemente
        'Date: 12/19/18
        'Purpose: Read Data file

        Dim filepath As IO.TextReader = IO.File.OpenText("Simplex Design.txt")
        Dim stringline As String
        Dim field_end As String = ","
        Dim field(3) As String
        Dim previous_reading, current_reading, resident_code As Integer
        Dim customer_number As String
        Dim units_used As Double
        Dim current_charge As Double
        Dim charge As Double
        Dim user_input As String

        Console.Write("Please enter the resident code to see listing of city or non-city
users: ")
        user_input = Console.ReadLine()

        Console.Clear()


        Console.WriteLine("                        Municipal Water Company")
        Console.WriteLine("                         16432 Oakmont Avenue")
        Console.WriteLine("                           Freeport, Maine")
        Console.WriteLine("                      City Resident Billing Charges")
        Console.WriteLine()
        Console.WriteLine("Customer" & ControlChars.Tab & "Previous" & ControlChars.Tab &
"Current" & ControlChars.Tab & ControlChars.Tab & "Resident" & ControlChars.Tab &
"Current")
        Console.WriteLine("Number" & ControlChars.Tab & ControlChars.Tab & "Reading" &
ControlChars.Tab & ControlChars.Tab & "Reading" & ControlChars.Tab & ControlChars.Tab &
"Code" & ControlChars.Tab & ControlChars.Tab & "Charge")
        Console.WriteLine("-----------------------------------------------------------------
------------")

        Do While filepath.Peek > -1
            stringline = filepath.ReadLine()
```

```vb
            field = stringline.Split(field_end)
            customer_number = field(0)
            previous_reading = field(1)
            current_reading = field(2)
            resident_code = field(3)

            units_used = current_reading - previous_reading

            If units_used <= 25 Then
                charge = (units_used * 0.37) + 1.5
            End If

            If units_used > 25 Then
                charge = ((25 * 0.37) + ((units_used - 25) * 0.3)) + 1.5
            End If

            If resident_code = 2 Then
                current_charge = charge * 1.5
            End If

            If resident_code = 1 Then
                current_charge = charge
            End If

            If user_input = resident_code Then

                Console.WriteLine(customer_number & ControlChars.Tab & ControlChars.Tab &
previous_reading & ControlChars.Tab & ControlChars.Tab & current_reading &
ControlChars.Tab & ControlChars.Tab & resident_code & ControlChars.Tab & ControlChars.Tab
& FormatCurrency(current_charge))

            End If
        Loop


    End Sub

End Module
```