## Problem Based Learning 14

Topic : File Handling

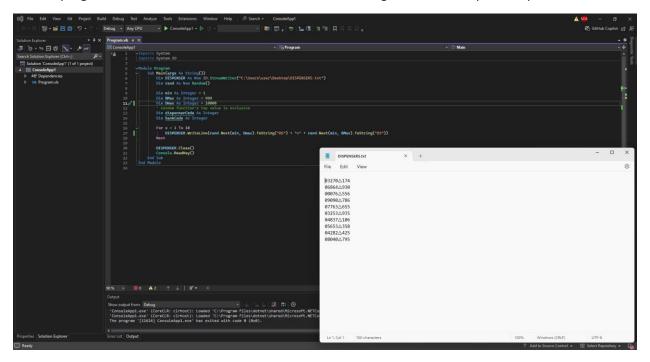
- A country has a number of banks. There are cash dispensers all over the country. Each bank is responsible for a number of dispensers.
  - banks have a three digit code in the range 001 999
  - each dispenser has a five digit code in the range 00001 99999

A text file, DISPENSERS, is to be created.

It has one line of text for each dispenser. For example: 00342▼007.

This line in the file is the data for dispenser 00342 which belongs to bank 007.

Write a program to create the file and store 10 records in the given format as per the question.



(ii) Write the program to do the following:

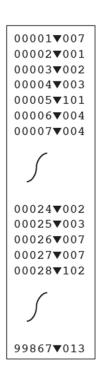
A new program is to be written to search the file.

The program will:

- · input a bank code
- output a list of all the dispensers which belong to this bank
- · output the total number of dispensers for this bank

An example of a run of the program is shown:

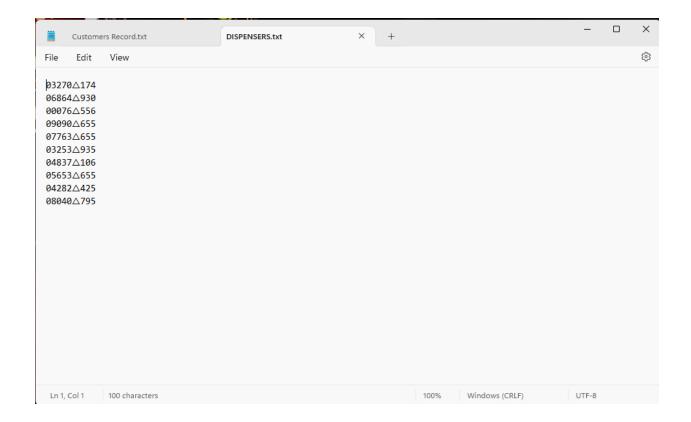
```
Enter bank code 007
00001
00011
00022
00026
00027
There are 5 dispensers for this bank
```



## Answer for Question 2:

```
| Control | Cont
```

.txt file



2. A car hire company hires cars to customers. Each time a car is hired, this is treated as a transaction.

For each transaction, the following data are stored.

For the customer:

- customer name
- ID number

The customer data are stored in a text file CUST-INFO.

## For the hire:

- car registration
- hire start date
- number of days hired

The transaction data are stored in a text file HIRE-TRANS.

Write a program that will store the data for 5 new customers and 5 hire transactions.

```
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3. A theatre company stores customer login details to allow customers to book tickets online.

Each customer's details are stored in a record.

The declaration for CustomerRecord is:

TYPE CustomerRecord

**DECLARE UserID: STRING** 

**DECLARE PINNumber: INTEGER** 

**ENDTYPE** 

A 1D array, CustomerDetails, is used to to store the data.

Write a program to store details of 5 customers.

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Program.vb → ×
                                                                                                                                                                                                                                                            → 😭 Main
                                  Sub Main(args As String())

Dim record As New StreamWriter("C:\Users\user\Desktop\Customers Record.txt")

Dim UserId As Integer

Dim PIN As Integer
                                                                                                                                                                                                                                                     C:\Users\user\Desktop\Progra × +
                                                                                                                                                                                                                                                    Enter the following data
                                                                                                                                                                                                                                                    Customer name: Wen Jun
Customer ID: 0001
Customer PIN: 38503
                                          Dim Cdetails(15) As String
Dim CD As Integer = 0
Console.WriteLine("Enter the following data")
             10
11
12
13
14
15
16
17
18
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20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
                                                                                                                                                                                                                                                   Now processing Customer 2
Customer name: Max
Customer ID: 0002
Customer PIN: 48204
                                                  Console.Write("Customer name: ")
Cdetails(CD) = Console.ReadLine().ToString()
record.Write("Customer name: " & Cdetails(CD) & ", ")
                                                                                                                                                                                                                                                   Now processing Customer 3
Customer name: Arshaq
Customer ID: 0003
Customer PIN: 45911
                                                 Console.Write("Customer ID: ")
Cdetails(CD) = Console.ReadLine().ToString()
record.Write("Customer ID: " & Cdetails(CD) & ", ")
CD += 1
                                                                                                                                                                                                                                                   Now processing Customer 4
Customer name: Shaun
Customer ID: 0004
Customer PIN: 294022
                                                 Console.Write("Customer PIN: ")
Cdetails(CD) = Console.ReadLine().ToString()
record.Write("Customer PIN: " & Cdetails(CD))
CD += 1
                                                                                                                                                                                                                                                   Now processing Customer 5
Customer name: Mathew
Customer ID: 0005
Customer PIN: 12121
                                                  record.WriteLine() ' Move to the next line after each customer's data for visual purposes only
Console.WriteLine() ' Formatting
                                                  If (x < 5) Then
Console.WriteLine($"Now processing Customer {x + 1}")
End If
                                           Next
                                           record.Close()
                                           Console.ReadKey()
```

## .txt file

