

Bahria University,

Karachi Campus



LAB EXPERIMENT NO.

11

LIST OF TASKS

| TASK NO. | OBJECTIVE |
|----------|---|
| 1 | Design a program of Employee in which you have to take information of 05 employees. Information includes (employee_id, name, date of birth, email, residential address, job title, salary...etc.) and save all the records in a txt file using StreamWriter |
| 2 | Design a program of Grocery items in which you have to take data of 15 items. Items includes (item_id, item name, date of manufacturing, date of expiration, quantity, price...etc.). Save all the data in a txt file using StreamWriter and print the data using StreamReader. |

Submitted On:

January, 2022

(Date: DD/MM/YY)

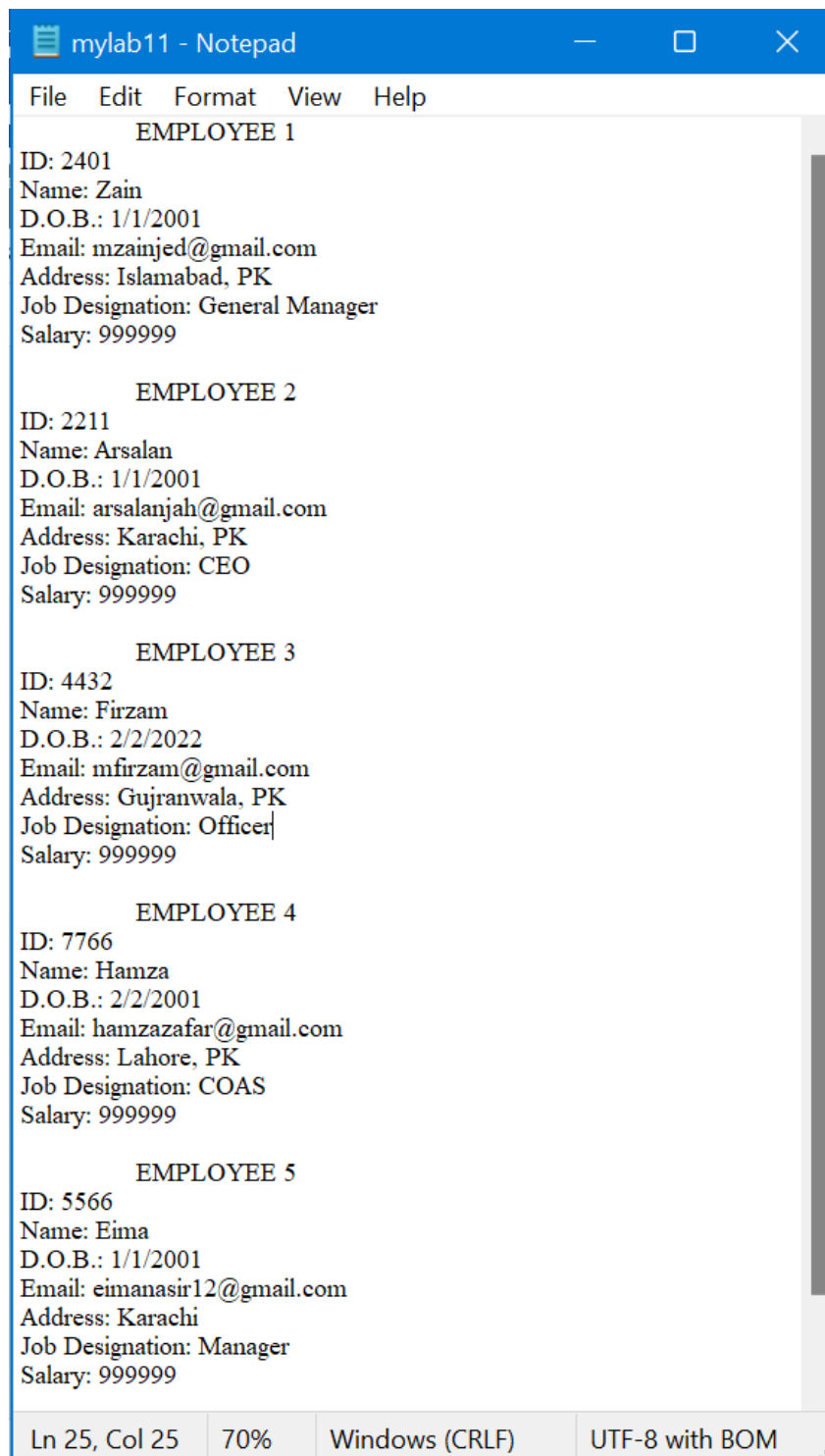
Task 1

Design a program of Employee in which you have to take information of 05 employees. Information includes (employee_id, name, date of birth, email, residential address, job title, salary...etc.) and save all the records in a txt file using StreamWriter.

Solution:

```
using System;
using System.IO;
using System.Text;

namespace lab11
{
    class Program
    {
        static void Main(string[] args)
        {
            var path = @"mylab11.txt";
            var fs = new FileStream(path, FileMode.OpenOrCreate, FileAccess.Write);
            Console.WriteLine("Enter no. of employees: ");
            int n = int.Parse(Console.ReadLine());
            string[,] arr = new string[n,7];
            using (StreamWriter writer = new StreamWriter(fs, Encoding.UTF8))
            {
                for (int i = 0; i < n; i++)
                {
                    Console.WriteLine("Enter Employee {0} ID: ", i + 1);
                    arr[i, 0] = Console.ReadLine();
                    Console.WriteLine("Enter Employee {0} name:", i + 1);
                    arr[i, 1] = Console.ReadLine();
                    Console.WriteLine("Enter Employee {0} D.O.B.: ", i + 1);
                    arr[i, 2] = Console.ReadLine();
                    Console.WriteLine("Enter Employee {0} Email: ", i + 1);
                    arr[i, 3] = Console.ReadLine();
                    Console.WriteLine("Enter Employee {0} Address:", i + 1);
                    arr[i, 4] = Console.ReadLine();
                    Console.WriteLine("Enter Employee {0} Job Designation: ", i + 1);
                    arr[i, 5] = Console.ReadLine();
                    Console.WriteLine("Enter Employee {0} Salary:", i + 1);
                    arr[i, 6] = Console.ReadLine();
                    writer.WriteLine("\tEMPLOYEE {0}", i+1);
                    writer.WriteLine("ID: {0}", arr[i, 0]);
                    writer.WriteLine("Name: {0}", arr[i, 1]);
                    writer.WriteLine("D.O.B.: {0}", arr[i, 2]);
                    writer.WriteLine("Email: {0}", arr[i, 3]);
                    writer.WriteLine("Address: {0}", arr[i, 4]);
                    writer.WriteLine("Job Designation: {0}", arr[i, 5]);
                    writer.WriteLine("Salary: {0}", arr[i, 6]);
                    writer.WriteLine("");
                }
            }
        }
    }
}
```

Output:

```
mylab11 - Notepad
File Edit Format View Help
EMPLOYEE 1
ID: 2401
Name: Zain
D.O.B.: 1/1/2001
Email: mzainjed@gmail.com
Address: Islamabad, PK
Job Designation: General Manager
Salary: 999999

EMPLOYEE 2
ID: 2211
Name: Arsalan
D.O.B.: 1/1/2001
Email: arsalanjah@gmail.com
Address: Karachi, PK
Job Designation: CEO
Salary: 999999

EMPLOYEE 3
ID: 4432
Name: Firzam
D.O.B.: 2/2/2022
Email: mfirmam@gmail.com
Address: Gujranwala, PK
Job Designation: Officer
Salary: 999999

EMPLOYEE 4
ID: 7766
Name: Hamza
D.O.B.: 2/2/2001
Email: hamzazafar@gmail.com
Address: Lahore, PK
Job Designation: COAS
Salary: 999999

EMPLOYEE 5
ID: 5566
Name: Eima
D.O.B.: 1/1/2001
Email: eimanasir12@gmail.com
Address: Karachi
Job Designation: Manager
Salary: 999999

Ln 25, Col 25 70% Windows (CRLF) UTF-8 with BOM
```

Task 2

Design a program of Grocery items in which you have to take data of 15 items. Items includes (item_id, item name, date of manufacturing, date of expiration, quantity, price...etc.). Save all the data in a txt file using StreamWriter and print the data using StreamReader.

Solution:

```
using System;
using System.IO;
using System.Text;

namespace lab11
{
    class Program
    {
        public static void Main(string[] args)
        {
            var path = @"mylab11.txt";
            var fs = new FileStream(path, FileMode.OpenOrCreate, FileAccess.Write);
            Console.Write("Enter no. of items: ");
            int n = int.Parse(Console.ReadLine());
            string[,] arr = new string[n,6];
            using (StreamWriter writer = new StreamWriter(fs, Encoding.UTF8))
            {
                for (int i = 0; i < n; i++)
                {
                    Console.Write("Enter Item {0} ID: ", i + 1);
                    arr[i, 0] = Console.ReadLine();
                    Console.Write("Enter Item {0} name:", i + 1);
                    arr[i, 1] = Console.ReadLine();
                    Console.Write("Enter Item {0} D.O.Manufacture: ", i + 1);
                    arr[i, 2] = Console.ReadLine();
                    Console.Write("Enter Item {0} D.O.Expiry: ", i + 1);
                    arr[i, 3] = Console.ReadLine();
                    Console.Write("Enter Item {0} Quantity:", i + 1);
                    arr[i, 4] = Console.ReadLine();
                    Console.Write("Enter Item {0} Price: ", i + 1);
                    arr[i, 5] = Console.ReadLine();

                    writer.WriteLine("\tITEM {0}", i + 1);
                    writer.WriteLine("ID: {0}", arr[i, 0]);
                    writer.WriteLine("Item: {0}", arr[i, 1]);
                    writer.WriteLine("Manufacturing Date: {0}", arr[i, 2]);
                    writer.WriteLine("Expiry Date: {0}", arr[i, 3]);
                    writer.WriteLine("Quantity: {0}", arr[i, 4]);
                    writer.WriteLine("Price: {0:C}", arr[i, 5]);
                    writer.WriteLine("\n");
                }
            }
            string print = File.ReadAllText(path,Encoding.UTF8);
            Console.WriteLine(print);
        }
    }
}
```

Output:

```
C:\WINDOWS\system32\cmd.exe
Enter no. of items: 5
Enter Item 1 ID: 3244
Enter Item 1 name:Shampoo
Enter Item 1 D.O.Manufacture: 2022
Enter Item 1 D.O.Expiry: 2023
Enter Item 1 Quantity:2
Enter Item 1 Price: 600
Enter Item 2 ID: 13746
Enter Item 2 name:Nescafe
Enter Item 2 D.O.Manufacture: 202
Enter Item 2 D.O.Expiry: 202
Enter Item 2 Quantity:3
Enter Item 2 Price: 896
Enter Item 3 ID: 4987
Enter Item 3 name:Coke
Enter Item 3 D.O.Manufacture: 2022
Enter Item 3 D.O.Expiry: 2023
Enter Item 3 Quantity:2
Enter Item 3 Price: 220
Enter Item 4 ID: 54387
Enter Item 4 name:Bread
Enter Item 4 D.O.Manufacture: 2022
Enter Item 4 D.O.Expiry: 2022
Enter Item 4 Quantity:1
Enter Item 4 Price: 80
Enter Item 5 ID: 9084
Enter Item 5 name:Cheese
Enter Item 5 D.O.Manufacture: 2021
Enter Item 5 D.O.Expiry: 2023
Enter Item 5 Quantity:1
Enter Item 5 Price: 550
```

```
C:\WINDOWS\system32\cmd.exe
ITEM 1
ID: 3244
Item: Shampoo
Manufacturing Date: 2022
Expiry Date: 2023
Quantity: 2
Price: 600

ITEM 2
ID: 13746
Item: Nescafe
Manufacturing Date: 202
Expiry Date: 202
Quantity: 3
Price: 896

ITEM 3
ID: 4987
Item: Coke
Manufacturing Date: 2022
Expiry Date: 2023
Quantity: 2
Price: 220

ITEM 4
ID: 54387
Item: Bread
Manufacturing Date: 2022
Expiry Date: 2022
Quantity: 1
Price: 80

ITEM 5
ID: 9084
Item: Cheese
Manufacturing Date: 2021
Expiry Date: 2023
Quantity: 1
Price: 550

Press any key to continue . . .
```

```
mylab11 - Notepad
File Edit Format View Help
ITEM 1
ID: 3244
Item: Shampoo
Manufacturing Date: 2022
Expiry Date: 2023
Quantity: 2
Price: 600

ITEM 2
ID: 13746
Item: Nescafe
Manufacturing Date: 202
Expiry Date: 202
Quantity: 3
Price: 896

ITEM 3
ID: 4987
Item: Coke
Manufacturing Date: 2022
Expiry Date: 2023
Quantity: 2
Price: 220

ITEM 4
ID: 54387
Item: Bread
Manufacturing Date: 2022
Expiry Date: 2022
Quantity: 1
Price: 80

ITEM 5
ID: 9084
Item: Cheese
Manufacturing Date: 2021
Expiry Date: 2023
Quantity: 1
Price: 550

Ln 32, Col 2 100% Windows (CRLF) UTF-8 with BOM
```