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Course Name: Dot Net Technology

Report: Laboratory work #3

1.Theme: Processing Collections of objects work with file.

1.Theory block

This time we use List and Loop and System IO File WriteAllLines

2.Program block with screenshots

```
using Lab01;
using System;
using System.Collections.Generic;
namespace Lab03
{
    class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("for make new Students list hit : 1\nFor view the student list hit : 2");
            var command = int.Parse(Console.ReadLine());

            var students = new List<Student>();
            if(command == 1)
            {
                Console.Write("Please enter number of student that u wanna register : ");
                var StudentNumber = int.Parse(Console.ReadLine());

                for(int i = 0; i < StudentNumber; i++)
                {
                    var std = new Student();
                    Console.WriteLine("iNFO FOR Student number : {0}",(i+1));

                    Console.Write("First Name : ");
                    std.FirstName = Console.ReadLine();

                    Console.Write("Last Name : ");
                    std.LastName = Console.ReadLine();

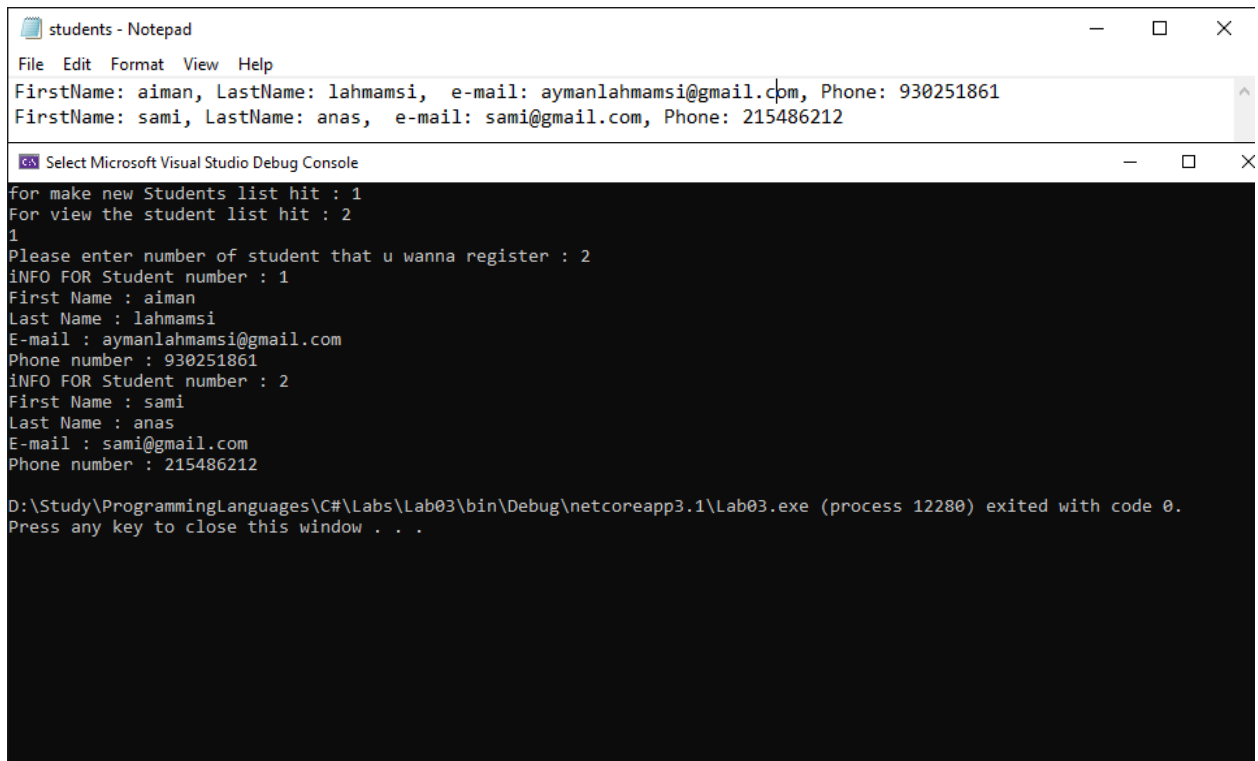
                    Console.Write("E-mail : ");
                    std.EMail = Console.ReadLine();

                    Console.Write("Phone number : ");
                    std.PhoneNumber = int.Parse(Console.ReadLine());
                }
            }
        }
    }
}
```

```

        students.Add(std);
    }
    String[] lines = new string[students.Count];
    for(int i = 0; i < students.Count; i++)
    {
        lines[i] = students[i].ToString();
    }
    System.IO.File.WriteAllLines("students.txt", lines);
}
else if(command == 2)
{
    var input = System.IO.File.ReadAllLines("students.txt");
    foreach (var inp in input)
    {
        var st = new Student();
        var parts = inp.Split(',');
        st.FirstName = parts[0].Split(':')[1].Trim();
        st.LastName = parts[1].Split(':')[1].Trim();
        st.Email = parts[2].Split(':')[1].Trim();
        st.PhoneNumber = int.Parse(parts[3].Split(':')[1]);
        students.Add(st);
    }
    foreach (var student in students)
    {
        Console.WriteLine(student);
    }
    Console.ReadKey();
}
else { Console.WriteLine("U must hit other number please restart the programm and
try again >_<."); }
Console.ReadKey();
}
}
}

```

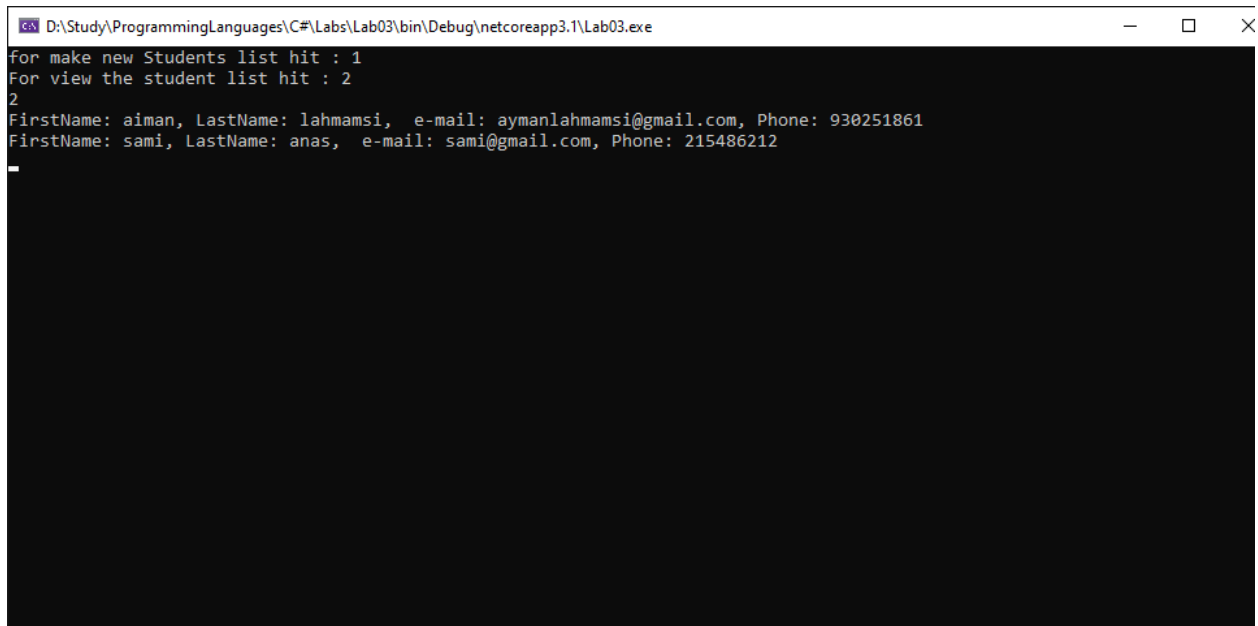


The image shows two overlapping windows. The top window is titled 'students - Notepad' and contains the following text: 'File Edit Format View Help', 'FirstName: aiman, LastName: lahmamsi, e-mail: aymanlahmamsi@gmail.com, Phone: 930251861', and 'FirstName: sami, LastName: anas, e-mail: sami@gmail.com, Phone: 215486212'. The bottom window is titled 'Select Microsoft Visual Studio Debug Console' and contains the following text: 'for make new Students list hit : 1', 'For view the student list hit : 2', '1', 'Please enter number of student that u wanna register : 2', 'iNFO FOR Student number : 1', 'First Name : aiman', 'Last Name : lahmamsi', 'E-mail : aymanlahmamsi@gmail.com', 'Phone number : 930251861', 'iNFO FOR Student number : 2', 'First Name : sami', 'Last Name : anas', 'E-mail : sami@gmail.com', 'Phone number : 215486212', and 'D:\Study\ProgrammingLanguages\C#\Labs\Lab03\bin\Debug\netcoreapp3.1\Lab03.exe (process 12280) exited with code 0. Press any key to close this window . . .'. The bottom window is currently active and has a black background.

```
students - Notepad
File Edit Format View Help
FirstName: aiman, LastName: lahmamsi, e-mail: aymanlahmamsi@gmail.com, Phone: 930251861
FirstName: sami, LastName: anas, e-mail: sami@gmail.com, Phone: 215486212

Select Microsoft Visual Studio Debug Console
for make new Students list hit : 1
For view the student list hit : 2
1
Please enter number of student that u wanna register : 2
iNFO FOR Student number : 1
First Name : aiman
Last Name : lahmamsi
E-mail : aymanlahmamsi@gmail.com
Phone number : 930251861
iNFO FOR Student number : 2
First Name : sami
Last Name : anas
E-mail : sami@gmail.com
Phone number : 215486212

D:\Study\ProgrammingLanguages\C#\Labs\Lab03\bin\Debug\netcoreapp3.1\Lab03.exe (process 12280) exited with code 0.
Press any key to close this window . . .
```



The image shows a single window titled 'D:\Study\ProgrammingLanguages\C#\Labs\Lab03\bin\Debug\netcoreapp3.1\Lab03.exe'. It contains the following text: 'for make new Students list hit : 1', 'For view the student list hit : 2', '2', 'FirstName: aiman, LastName: lahmamsi, e-mail: aymanlahmamsi@gmail.com, Phone: 930251861', and 'FirstName: sami, LastName: anas, e-mail: sami@gmail.com, Phone: 215486212'. The window is currently active and has a black background.

```
D:\Study\ProgrammingLanguages\C#\Labs\Lab03\bin\Debug\netcoreapp3.1\Lab03.exe
for make new Students list hit : 1
For view the student list hit : 2
2
FirstName: aiman, LastName: lahmamsi, e-mail: aymanlahmamsi@gmail.com, Phone: 930251861
FirstName: sami, LastName: anas, e-mail: sami@gmail.com, Phone: 215486212
```

3.Conclusion

This time we want to get the result in the text file so we used System IO so when we create our group in console it will save in text file.