

**Houda Bentalla**

**KIT-118i.e**

**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 Lab1;
using System;
using System.Collections.Generic;

namespace Lab3
{
    class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Hello for input new students from Console input 1 or for get
students from File input 2");
            var students = new List<Student>();
            var command = Console.ReadLine();
            if (command == "1")
            {
                Console.WriteLine("Please enter number of student");
                var count = int.Parse(Console.ReadLine());

                for (int i = 0; i < count; i++)
                {
                    Console.WriteLine("please enter student no {0}", i + 1);
                    var student = new Student();
                    Console.WriteLine("Name: ");
                    student.FirstName = Console.ReadLine();
                    Console.WriteLine("LastName: ");
                    student.LastName = Console.ReadLine();
                    Console.WriteLine("PhoneNumber: ");
                    student.PhoneNumber = int.Parse(Console.ReadLine());
                    Console.WriteLine("Email: ");
                    student.Email = Console.ReadLine();
                }
            }
        }
    }
}
```

```

        students.Add(student);
    }

    string[] lines = new string[students.Count];
    for (int i = 0; i < students.Count; i++)
    {
        lines[i] = students[i].ToString();
    }

    System.IO.File.WriteAllLines("student.txt", lines);
}

else if (command == "2")
{
    var input = System.IO.File.ReadAllLines("student.txt");
    foreach (var inp in input)
    {
        var st = new Student();
        var parts = inp.Split('\t');
        st.FirstName = parts[0].Split(':')[1].Trim();
        st.LastName = parts[1].Split(':')[1].Trim();
        st.PhoneNumber = int.Parse(parts[2].Split(':')[1]);
        st.Email = parts[3].Split(':')[1].Trim();
        students.Add(st);
    }
}

// for all
foreach (var student in students)
{
    Console.WriteLine(student);
}

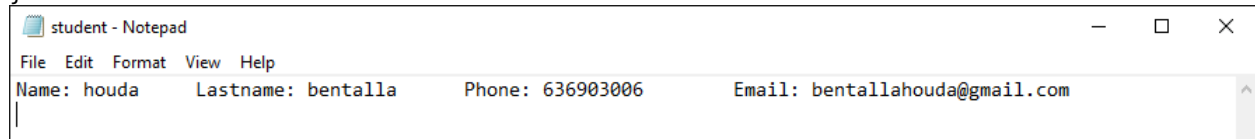
Console.ReadKey();

```

```

}

```



```

}

```

```
Select C:\Users\Black\Desktop\ho\Lab3\bin\Debug\Lab3.exe
Hello for input new students from Console input 1 or for get students from File input 2
1
Please enter number of student
1
please enter student no 1
Name:
houda
LastName:
bentalla
PhoneNumber:
636903006
Email:
bentallahouda@gmail.com
Name: houda      Lastname: bentalla      Phone: 636903006      Email: bentallahouda@gmail.com
```

```
CS Select C:\Windows\system32\cmd.exe
Hello for input new students from Console input 1 or for get students from File input 2
2
Name: houda      Lastname: bentalla      Phone: 636903006      Email: bentallahouda@gmail.com
```

### 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.