

Software Technology DOT-NET

Report for the Laboratory work #1

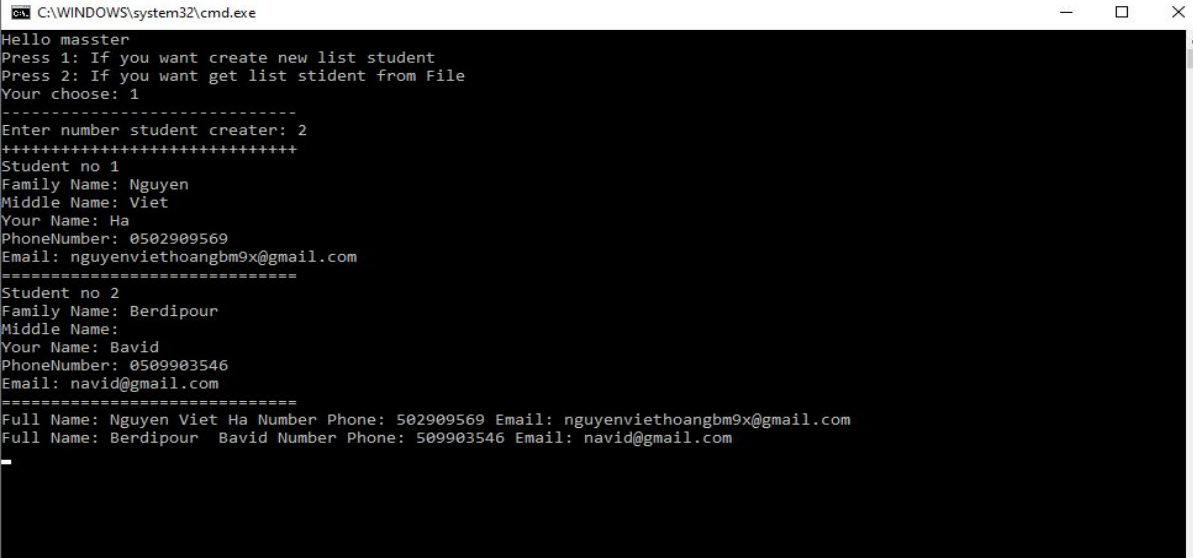
Theme: Development of programs in C#. Console applications

1. Theory block

Task1: Create program with class Student with GroupName, FamilyName, MiddleName, Name, PhoneNumber and Email.

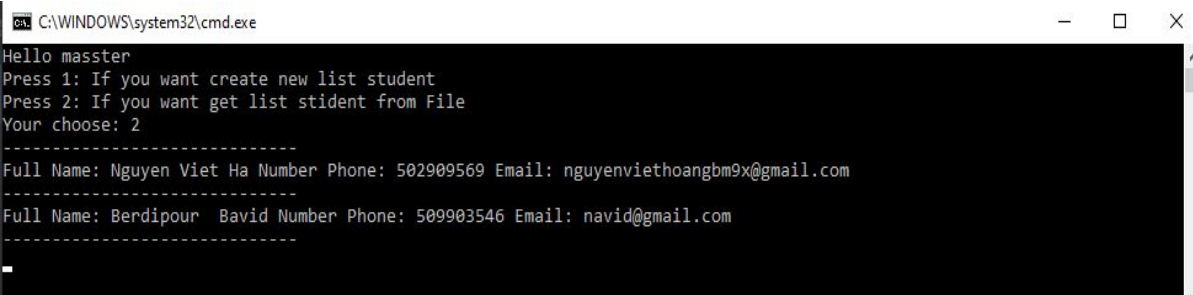
In Main function create the object from the Student class. Input data from the console to this object and output all data to the console back

2. Program block with screenshots



```
C:\WINDOWS\system32\cmd.exe
Hello masster
Press 1: If you want create new list student
Press 2: If you want get list stident from File
Your choose: 1
-----
Enter number student creator: 2
+++++
Student no 1
Family Name: Nguyen
Middle Name: Viet
Your Name: Ha
PhoneNumber: 0502909569
Email: nguyenviethoangbm9x@gmail.com
=====
Student no 2
Family Name: Berdipour
Middle Name:
Your Name: Bavid
PhoneNumber: 0509903546
Email: navid@gmail.com
=====
Full Name: Nguyen Viet Ha Number Phone: 502909569 Email: nguyenviethoangbm9x@gmail.com
Full Name: Berdipour Bavid Number Phone: 509903546 Email: navid@gmail.com
-
```

Picture 1 – Screenshot of work of Program when we choose (1)



```
C:\WINDOWS\system32\cmd.exe
Hello masster
Press 1: If you want create new list student
Press 2: If you want get list stident from File
Your choose: 2
-----
Full Name: Nguyen Viet Ha Number Phone: 502909569 Email: nguyenviethoangbm9x@gmail.com
-----
Full Name: Berdipour Bavid Number Phone: 509903546 Email: navid@gmail.com
-----
-
```

Picture 2 – Screenshot of work of Program when we choose (2)

3. Conclusion

That is program make:

```
using LapOfTask01;
using System.Runtime.InteropServices.ComTypes;
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading;
using System.Threading.Tasks;

namespace LabOfTask03
{
    class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Hello master");
            Console.WriteLine("Press 1: If you want create new list student");
            Console.WriteLine("Press 2: If you want get list student from File");
            Console.Write("Your choose: ");

            var students = new List<Student>();
            var command = Console.ReadLine();

            Console.WriteLine("-----");
            //Choose 1 if you want to create new students.
            if (command == "1")
            {
```

```

Console.Write("Enter number student creator: ");
var count = int.Parse(Console.ReadLine());
Console.WriteLine("++++++++++++++++++++++++++++++++++++");

for (int i = 0; i < count; i++)
{
    Console.WriteLine("Student no {0}", i + 1);
    var student = new Student();
    Console.Write("Family Name: ");
    student.FamilyName = Console.ReadLine();
    Console.Write("Middle Name: ");
    student.MiddleName = Console.ReadLine();
    Console.Write("Your Name: ");
    student.Name = Console.ReadLine();
    Console.Write("PhoneNumber: ");
    student.PhoneNumber = int.Parse(Console.ReadLine());
    Console.Write("Email: ");
    student.YourEmail = Console.ReadLine();

    Console.WriteLine("=====");

    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);
}

```

```
//Choose 2 if you want to see list students.
else if (command == "2")
{

    var lines = System.IO.File.ReadAllLines(@"student.txt");
    foreach (var line in lines)
    {
        Console.WriteLine(line);
        Console.WriteLine("-----");
    }
}
//
foreach (var student in students)
{
    Console.WriteLine(student);
}
Console.ReadKey();
}
}
```