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KIT-118i.e

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Course Name: Dot Net Technology

Report: Laboratory work #4

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1.Theme: Processing StringBuilder

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1.Theory block

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This time we use StringBuilder.

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2.Program block with screenshot

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```csharp
using System;

namespace Lab04
{
    class Program
    {
        public static void Main(string[] arg)
        {
            var student = new StudentExtended();
            Console.Write("Name: ");
            student.FirstName = Console.ReadLine();

            Console.Write("LastName: ");
            student.LastName = Console.ReadLine();

            Console.Write("PhoneNumber: ");
            student.PhoneNumber = int.Parse(Console.ReadLine());

            Console.Write("Email: ");
            student.EMail = Console.ReadLine();

            Console.WriteLine("Please Enter your Birthdate (exp 2020, 12,30)");
            DateTime inputtedDate = DateTime.Parse(Console.ReadLine());
            student.BirthDate = inputtedDate;

            Console.WriteLine("Please Enter Date of your admission(exp 2018, 09,30)");
            DateTime inputtedDate2 = DateTime.Parse(Console.ReadLine());
            student.Admission = inputtedDate2;

            Console.WriteLine("Plese Enter your faculty name");
```

```csharp
            student.Faculty = Console.ReadLine();

            Console.WriteLine("Plese Enter your specialty number");
            student.Specialty_number = Console.ReadLine();

            Console.WriteLine(student.ToString());
            Console.ReadKey();
        }

    }
}




using Lab01;

using System;
using System.Text;


namespace Lab04
{
    public class StudentExtended : Student
    {
        public DateTime BirthDate;
        public DateTime Admission;
        public string Faculty;
        public string Specialty_number;
        public int Age
        {
            get
            {
                var age = DateTime.Today.Year - BirthDate.Year;
                if (BirthDate.Date > DateTime.Today.AddYears(-age)) age--;
                return age;
            }
        }
        public int CourseNo
        {
            get
            {
                var courseNo = DateTime.Today.Year - Admission.Year;
                if (DateTime.Today.Month > 8) courseNo++;
                return courseNo;
            }
        }
        public int SemesterNO
        {
            get
            {
                var semesterNo = CourseNo * 2;
                if (DateTime.Today.Month > 8 || DateTime.Today.Month < 2) semesterNo--;
                return semesterNo;
            }
        }
        public string GroupNo
```

```csharp
        {
            get
            {
                return $"{Faculty}{Specialty_number}{Admission.ToString("yy")}";
            }
        }
        public override string ToString()
        {
            var sb = new StringBuilder();
            sb.AppendLine($"Name: {FirstName} ");
            sb.AppendLine($"Lastname: {LastName} ");
            sb.AppendLine($"Phone: {PhoneNumber} ");
            sb.AppendLine($"Email: {EMail} ");
            sb.AppendLine($"BirthDate: {BirthDate.ToString("yyyy,MM,dd")} ");
            sb.AppendLine($"Date of Admission: {Admission.ToString("yyyy,MM,dd")} ");
            sb.AppendLine($"Faculty:{Faculty} ");
            sb.AppendLine($"Specialty Number: {Specialty_number} ");
            sb.AppendLine($"Age: {Age} ");
            sb.AppendLine($"CourseNo:{CourseNo} ");
            sb.AppendLine($"SemesterNo:{SemesterNO} ");
            sb.AppendLine($"GroupeNo: {GroupNo}");
            return sb.ToString();
        }
    }
}
```

```
Select D:\Study\ProgrammingLanguages\C#\Labs\Lab04\bin\Debug\netcoreapp3.1\Lab04.exe

Name: aiman
LastName: lahmamsi
PhoneNumber: 930251861
Email: aymanlahmamsi@gfmail.com
Please Enter your Birthdate (exp 2020, 12,30)
1999, 10,27
Please Enter Date of your admission(exp 2018, 09,30)
2018, 08, 4
Plese Enter your faculty name
CIT
Plese Enter your specialty number
5
Name: aiman
Lastname: lahmamsi
Phone: 930251861
Email: aymanlahmamsi@gfmail.com
BirthDate: 1999,10,27
Date of Admission: 2018,08,04
Faculty:CIT
Specialty Number: 5
Age: 21
CourseNo:3
SemesterNo:5
GroupeNo: CIT518
```

3.Conclusion

This time we want to Know the group number of the student only from his given information.