ASSIGNMENT – 1 (TEAM-4)

TEAM LEAD: PRIYANGA.M

TEAM MEMBERS:

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QUESTION NO.1

C# Program create a class student with a data members roll no. , name, subject 1 marks, subject 2 marks, subject 3 marks, obtained marks and percentage and their grade provide members function. Calculate marks and calculate percentage to get the grade.

Data members:

1. Roll no. of the student
2. Name of the student
3. Subjects marks
4. Total Percentage
5. Grade of the total percentage

PROGRAM

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

class  GFG{

static void Main(string[] args)
{

        // Declare variables for marks and total
        int r, marks1, marks2, marks3, total;

        // Declare percentage variable
        float percentage;
        string n;

        // Enter student roll number
        Console.WriteLine("Enter Student Roll Number :");
        r = Convert.ToInt32(Console.ReadLine());

        // Enter student name
        Console.WriteLine("Enter Student Name :");
        n = Console.ReadLine();

        // Enter student subject 1 marks
        Console.WriteLine("Enter Subject-1 Marks : ");
        marks1 = Convert.ToInt32(Console.ReadLine());
```

```
// Enter student subject 2 marks
Console.WriteLine("Enter Subject-2 Marks : ");
marks2 = Convert.ToInt32(Console.ReadLine());

// Enter student subject 3 marks
Console.WriteLine("Enter Subject-3 Marks :");
marks3 = Convert.ToInt32(Console.ReadLine());

// Calculate total marks
total = marks1 + marks2 + marks3;

// Calculate percentage
percentage = total / 3.0f;

// Display the final result
Console.WriteLine("Final result of {0} is:", n);
Console.WriteLine("Total Marks : " + total);
Console.WriteLine("Percentage : " + percentage);

// Calculate grades
if (percentage <= 35)
{
	Console.WriteLine("Grade is F");
}
else if (percentage >= 34 && percentage <= 39)
{
	Console.WriteLine("Grade is D");
}
else if (percentage >= 40 && percentage <= 59)
{
Console.WriteLine("Grade is C");
```

```
        }
        else if (percentage >= 60 && percentage <= 69)
        {
            Console.WriteLine("Grade is B");
        }
        else if (percentage >= 70 && percentage <= 79)
        {
            Console.WriteLine("Grade is B+");
        }
        else if (percentage >= 80 && percentage <= 90)
        {
            Console.WriteLine("Grade is A");
        }
        else if (percentage >= 91)
        {
            Console.WriteLine("Grade is A+");
        }
}
}
```

OUTPUT

QUESTION NO.2

Define a class called “Employee” with the following field; Employee id, Employee name, Employee age, Employee salary defined an array of objects to hold the 4 records of Employee. Accept the details of 4 Employee. Display the id, name, age, salary that the Employee name starts with the character “U”.

Data members:

1. Employee Id
2. Employee name
3. Employee age
4. Employee salary

PROGRAM

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

public class Employee
```

```
{

   int     ID      ;
   string  Name    ;
   int     Age     ;
   int     Salary  ;



   public override string ToString()
   {
      return ID + " " + Name+" "+Age+" "+Salary;
   }


   static void Main(string[] args)
   {
      List<Employee> employees = new List<Employee>()
      {
         new Employee {ID=101,   Name="Sumit"    ,Age=23,
Salary=4000},
         new Employee {ID=102,   Name="Kiran"    ,Age=24,
Salary=6000},
         new Employee {ID=103,   Name="Suman"
,Age=25, Salary=7000},
```

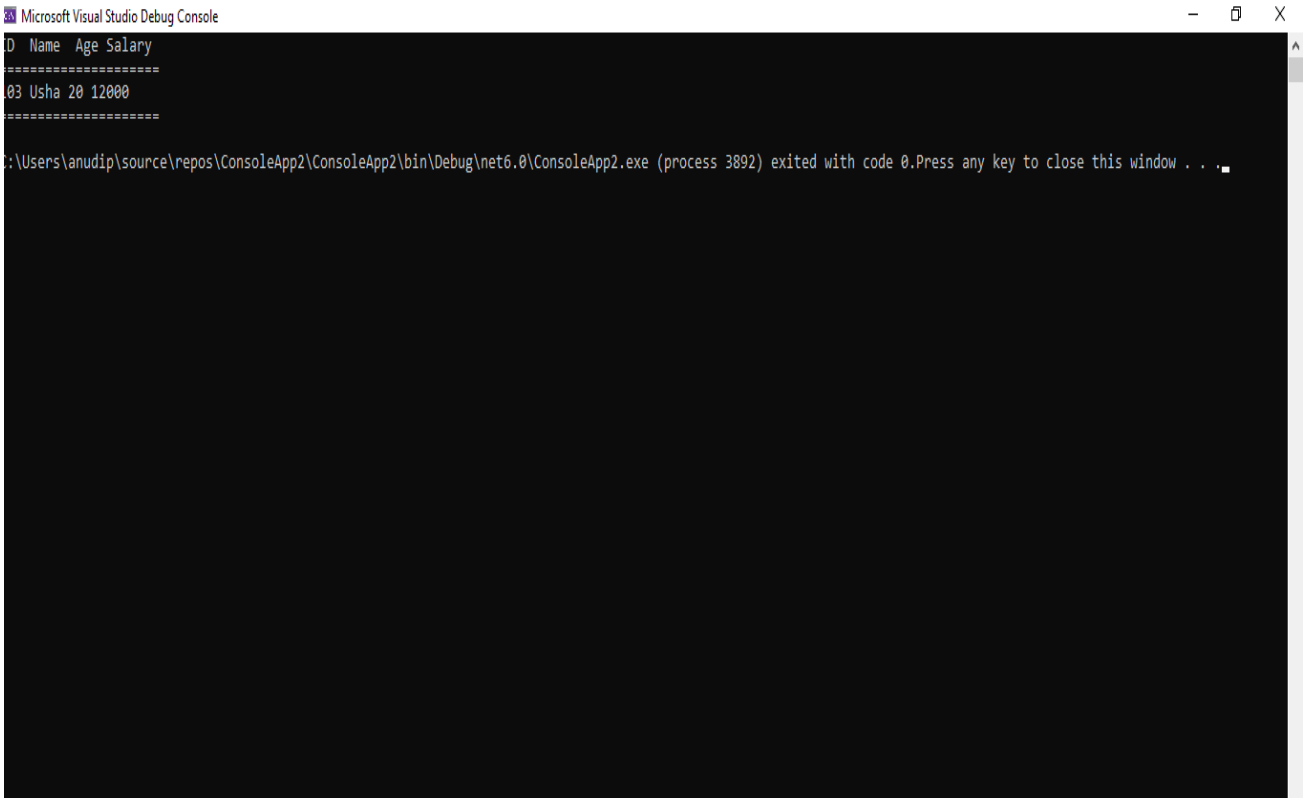
```
            new Employee {ID=104,   Name="Raman"
,Age=26, Salary=9000},
        };

        IEnumerable<Employee> Query =
            from emp in employees
            where emp.Name[0]=='S'
            select emp;



        Console.WriteLine("ID  Name  Age Salary");
        Console.WriteLine("=====================");
        foreach (Employee s in Query)
        {
            Console.WriteLine(s.ToString());
        }
        Console.WriteLine("=====================");
    }
}
```

OUTPUT


Microsoft Visual Studio Debug Console
D Name Age Salary
03 Usha 20 12000
:\Users\anudip\source\repos\ConsoleApp2\ConsoleApp2\bin\Debug\net6.0\ConsoleApp2.exe (process 3892) exited with code 0.Press any key to close this window . . .