RICHFIELD

FACULTY OF INFORMATION TECHNOLOGY

PROGRAMMING 742 ASSIGNMENT

Name & Surname: Moeketsi Nelson Motubatsi **ICAS / ITS No:** 401703388

Qualification: BSc IT **Semester:** 2 **Module Name:** Programming 742

Date Submitted: 22/09/2022

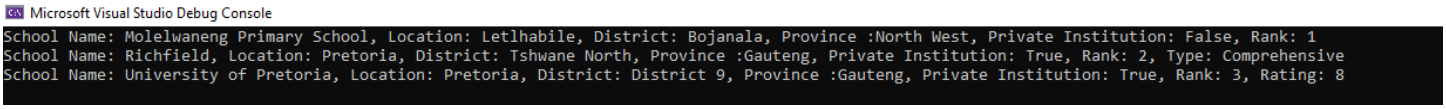
ASSESSMENT CRITERIA	MARK ALLOCATION	EXAMINER MARKS	MODERATOR MARKS
MARKS FOR CONTENT			
QUESTION ONE	**45**		
QUESTION TWO	**45**		
TOTAL	**90**		
MARKS FOR TECHNICAL ASPECTS			
TABLE OF CONTENTS Accurate numbering according to the numbering in text and page numbers.	**2**		
CODE Program text indentation Use of constant, variable and structure names Comments	**5**		
REFERENCES According to the Harvard Method	**3**		
TOTAL	**10**		
TOTAL MARKS FOR ASSIGNMENT	**100**		
Examiner's Comments:			
Moderator's Comments:			
Signature of Examiner:	**Signature of Moderator:**		

TABLE OF CONTENTS

Cover Page	1
Table of contents	2
Question 1 Screenshot	3
Question 1 Code	3-6
Question 2 Screenshot	7
Question 2 Code	8-16
References	17

QUESTION 1 — 45 MARKS

Output




```
using System;
using System.Collections;

namespace ConsoleApp9
{
   //School Class
   public class School
   {
      protected string schoolName;
      protected string location;
      protected string district;
      protected string province;
      protected bool privateinstitution;
      protected static int rank = 0;

      //School Classs Constructor
      public School() { }
      public School(string aschoolName, string alocation, string adistrict, string aprovince, bool
aprivateinstitution)
      {
         schoolName = aschoolName;
         location = alocation;
         district = adistrict;
         province = aprovince;
         privateinstitution = aprivateinstitution;


         rank++;
      }

      public static int ShowRank()
      {
         return rank;
      }

      //Getter and Setter
      public string SchoolName
      {
         get { return schoolName; }
         set { schoolName = value; }
```

```
    }
    public string Location
    {
        get { return location; }
        set { location = value; }
    }
    public string District
    {
        get { return district; }
        set { district = value; }
    }
    public string Province
    {
        get { return province; }
        set { province = value; }
    }
    public bool Privateinstitution
    {
        get { return privateinstitution; }
        set { privateinstitution = value; }
    }
    public int Rank
    {
        get { return rank; }
        set { rank = value; }
    }

    //Display Methord
    public virtual void DisplaySchool()
    {
        Console.WriteLine("School Name: {0}, Location: {1}, District: {2}, Province :{3}, Private Institution: {4},
Rank: {5}"
            , SchoolName, Location, District, Province, Privateinstitution, Rank);
    }

    //College classs
    class College : School
    {
        protected string type;

        //College Classs Constructor
        public College() { }
        public College(string aschoolName, string alocation, string adistrict, string aprovince, bool
aprivateinstitution, string ctype)
            : base()
        {
```

```
            schoolName = aschoolName;
            location = alocation;
            district = adistrict;
            province = aprovince;
            privateinstitution = aprivateinstitution;
            type = ctype;

            rank++;
        }

        //Getter and Setter
        public string Type
        {
            get { return type; }
            set { type = value; }
        }

        //Display Methord
        public override void DisplaySchool()
        {
            Console.WriteLine("School Name: {0}, Location: {1}, District: {2}, Province :{3}, Private Institution: {4},
Rank: {5}, Type: {6}"
                , SchoolName, Location, District, Province, Privateinstitution, Rank, Type);
        }
    }

    //University Class
    class University : School
    {
        protected int rating;

        //University Classs Constructor
        public University() { }
        public University(string aschoolName, string alocation, string adistrict, string aprovince, bool
aprivateinstitution, int arating)
            : base()
        {
            schoolName = aschoolName;
            location = alocation;
            district = adistrict;
            province = aprovince;
            privateinstitution = aprivateinstitution;
            rating = arating;

            rank++;
        }
```

```
        //Getter and Setter
        public int Rating
        {
            get { return rating; }
            set { rating = value; }
        }

        //Display Methord
        public override void DisplaySchool()
        {
            Console.WriteLine("School Name: {0}, Location: {1}, District: {2}, Province :{3}, Private Institution: {4},
Rank: {5}, Rating: {6}"
                , SchoolName, Location, District, Province, Privateinstitution, Rank, rating);
        }

    }

    class Program
    {
        static void Main(string[] args)
        {
            School MPS = new School("Molelwaneng Primary School", "Letlhabile", "Bojanala", "North West",
false);
            MPS.DisplaySchool();

            College dd = new College("Richfield", "Pretoria", "Tshwane North", "Gauteng", true,
"Comprehensive");
            dd.DisplaySchool();

            University cc = new University("University of Pretoria","Pretoria","District 9","Gauteng",true,8);
            cc.DisplaySchool();

            var objList = new ArrayList();
            objList.AddRange(new ArrayList() { MPS.SchoolName, MPS.Location, MPS.District, MPS.Province,
MPS.Privateinstitution, MPS.Rank });
            objList.AddRange(new ArrayList() { dd.SchoolName, dd.Location, dd.District, dd.Province,
dd.Privateinstitution, dd.Rank, dd.Type });
            objList.AddRange(new ArrayList() { cc.SchoolName, cc.Location, cc.District, cc.Province,
cc.Privateinstitution, cc.Rank, cc.Rating });

        }
    }

  }
}
```

QUESTION 2 — 45 MARKS

Output

```
C:\Users\Motub\source\repos\sss\sss\bin\Debug\netcoreapp3.1\sss.exe
Student 1, enter your student number:
40003456
Student 1, enter your Test 1 mark
56
Student 1, enter your Test 2 mark
34
Student 1, enter your Assingment mark
67
student 1, enter your exam mark
65

student 2, enter your student number
40006723
Student 2, enter your Test 1 mark
84
Student 2, enter your test 2 mark
78
Student 2, enter your Assingment mark
90
Student 2, enter your Exam mark
56

Student 3, enter your student number
40005653
Student 3, enter your Test 1 mark
68
Student 3, enter your Test 2 mark
47
Student 3, enter your Assingment mark
98
Student 3, enter your Exam mark
67

Student 4, enter your student number
40004783
Student 4, enter your Test 1 mark
90
Student 4, enter your Test 2 mark
88
Student 4, enter your Assingment mark
82
Student 4, enter your Exam mark
80

Student 5, enter your student number
40004532
Student 5, enter your Test 1 mark
78
Student 5, enter your Test 2 mark
68
Student 5, enter your Assingment mark
89
```

```
Microsoft Visual Studio Debug Console

Student 6, enter your student number
40006543
Student 6, enter your Test 1 mark
40
Student 6, enter your Test 2 mark
47
Student 6, enter your Assingment mark
50
Student 6, enter your Exam mark
67

Student 7, enter your student number
40006745
Student 7, enter your Test 1 mark
36
Student 7, enter your Test 2 mark
50
Student 7, enter your Assingment mark
87
Student 7, enter your Exam mark
65

Student 8, enter your student number
401703388
Student 8, enter your Test 1 mark
68
Student 8, enter your Test 2 mark
52
Student 8, enter your Assingment mark
60
Student 8, enter your Exam mark
73


++++++++++++++++++++++++++++++++++++++++++

No          40003456   40006723   40005653   40004783   40004532   40006543   40006745   401703388
T1          56   84   68   90   78   40   36   68
T2          34   78   47   88   68   47   50   52
Assingment  67   90   98   82   89   50   87   60
Exam        65   56   67   80   78   67   65   73
Final       60   67   69   83   78   58   62   68

++++++++++++++++++++++++++++++++++++++++++

Test1 Average is: 65

Test2 Average is: 58

Assignmet Average is: 78
```

```
Microsoft Visual Studio Debug Console
401703388
Student 8, enter your Test 1 mark
68
Student 8, enter your Test 2 mark
52
Student 8, enter your Assingment mark
60
Student 8, enter your Exam mark
73


++++++++++++++++++++++++++++++++++++++++++

No          40003456   40006723   40005653   40004783   40004532   40006543   40006745   401703388
T1          56   84   68   90   78   40   36   68
T2          34   78   47   88   68   47   50   52
Assingment  67   90   98   82   89   50   87   60
Exam        65   56   67   80   78   67   65   73
Final       60   67   69   83   78   58   62   68

++++++++++++++++++++++++++++++++++++++++++

Test1 Average is: 65

Test2 Average is: 58

Assignmet Average is: 78

Exam Average is: 69

++++++++++++++++++++++++++++++++++++++++++

Student: 40003456 Pass

Student: 40006723 Pass

Student: 40005653 Pass

Student: 40004783 Pass

Student: 40004532 Pass

Student: 40006543 Pass

Student: 40006745 Pass

Student: 401703388 Pass
```

```
marks - Notepad
File  Edit  Format  View  Help
Student Number 40003456: 60
Student Number 40006723: 67
Student Number 40005653: 69
Student Number 40004783: 83
Student Number 40004532: 78
Student Number 40006543: 58
Student Number 40006745: 62
Student Number 401703388: 68
```

```
using System;
using System.IO;

namespace sss
{
   class Program
   {
      static void Main(string[] args)
      {
         try
         {
            Object[,] stdinfo = new object[6, 9];
            stdinfo[0, 0] = "No       ";
            stdinfo[1, 0] = "T1       ";
            stdinfo[2, 0] = "T2       ";
            stdinfo[3, 0] = "Assingment";
            stdinfo[4, 0] = "Exam     ";
            stdinfo[5, 0] = "Final    ";

            //First student info prompt
            Console.WriteLine("Student 1, enter your student number:");
            (stdinfo[0, 1]) = Convert.ToInt32(Console.In.ReadLine());

            Console.WriteLine("Student 1, enter your Test 1 mark");
            stdinfo[1, 1] = Convert.ToInt32(Console.In.ReadLine());

            Console.WriteLine("Student 1, enter your Test 2 mark");
            stdinfo[2, 1] = Convert.ToInt32(Console.In.ReadLine());

            Console.WriteLine("Student 1, enter your Assingment mark");
            stdinfo[3, 1] = Convert.ToInt32(Console.In.ReadLine());

            Console.WriteLine("student 1, enter your exam mark");
            stdinfo[4, 1] = Convert.ToInt32(Console.In.ReadLine());

            Console.WriteLine("\t");

            //Second student info prompt
            Console.WriteLine("student 2, enter your student number");
            stdinfo[0, 2] = Convert.ToInt32(Console.In.ReadLine());

            Console.WriteLine("Student 2, enter your Test 1 mark");
            stdinfo[1, 2] = Convert.ToInt32(Console.In.ReadLine());

            Console.WriteLine("Student 2, enter your test 2 mark");
            stdinfo[2, 2] = Convert.ToInt32(Console.In.ReadLine());
```

```
Console.WriteLine("Student 2, enter your Assingment mark");
stdinfo[3, 2] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("Student 2, enter your Exam mark");
stdinfo[4, 2] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("\t");

//Third student info prompt
Console.WriteLine("Student 3, enter your student number");
stdinfo[0, 3] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("Student 3, enter your Test 1 mark");
stdinfo[1, 3] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("Student 3, enter your Test 2 mark");
stdinfo[2, 3] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("Student 3, enter your Assingment mark");
stdinfo[3, 3] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("Student 3, enter your Exam mark");
stdinfo[4, 3] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("\t");

//Fouth student info prompt
Console.WriteLine("Student 4, enter your student number");
stdinfo[0, 4] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("Student 4, enter your Test 1 mark");
stdinfo[1, 4] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("Student 4, enter your Test 2 mark");
stdinfo[2, 4] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("Student 4, enter your Assingment mark");
stdinfo[3, 4] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("Student 4, enter your Exam mark");
stdinfo[4, 4] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("\t");

//Fifth student info prompt
```

```
Console.WriteLine("Student 5, enter your student number");
stdinfo[0, 5] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("Student 5, enter your Test 1 mark");
stdinfo[1, 5] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("Student 5, enter your Test 2 mark");
stdinfo[2, 5] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("Student 5, enter your Assingment mark");
stdinfo[3, 5] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("Student 5, enter your Exam mark");
stdinfo[4, 5] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("\t");

//Sixth student info prompt
Console.WriteLine("Student 6, enter your student number");
stdinfo[0, 6] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("Student 6, enter your Test 1 mark");
stdinfo[1, 6] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("Student 6, enter your Test 2 mark");
stdinfo[2, 6] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("Student 6, enter your Assingment mark");
stdinfo[3, 6] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("Student 6, enter your Exam mark");
stdinfo[4, 6] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("\t");

//Seventh student info prompt
Console.WriteLine("Student 7, enter your student number");
stdinfo[0, 7] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("Student 7, enter your Test 1 mark");
stdinfo[1, 7] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("Student 7, enter your Test 2 mark");
stdinfo[2, 7] = Convert.ToInt32(Console.In.ReadLine());

Console.WriteLine("Student 7, enter your Assingment mark");
```

```
            stdinfo[3, 7] = Convert.ToInt32(Console.In.ReadLine());

            Console.WriteLine("Student 7, enter your Exam mark");
            stdinfo[4, 7] = Convert.ToInt32(Console.In.ReadLine());

            Console.WriteLine("\t");

            //Eighth student info prompt
            Console.WriteLine("Student 8, enter your student number");
            stdinfo[0, 8] = Convert.ToInt32(Console.In.ReadLine());

            Console.WriteLine("Student 8, enter your Test 1 mark");
            stdinfo[1, 8] = Convert.ToInt32(Console.In.ReadLine());

            Console.WriteLine("Student 8, enter your Test 2 mark");
            stdinfo[2, 8] = Convert.ToInt32(Console.In.ReadLine());

            Console.WriteLine("Student 8, enter your Assingment mark");
            stdinfo[3, 8] = Convert.ToInt32(Console.In.ReadLine());

            Console.WriteLine("Student 8, enter your Exam mark");
            stdinfo[4, 8] = Convert.ToInt32(Console.In.ReadLine());

            Console.WriteLine("\t");

            //First student Final calculation
            int Std1Test1 = Convert.ToInt32(stdinfo[1, 1]);
            int Std1Test2 = Convert.ToInt32(stdinfo[2, 1]);
            int Std1Assign = Convert.ToInt32(stdinfo[3, 1]);
            int Std1Exam = Convert.ToInt32(stdinfo[4, 1]);
            double Std1Final = Math.Round(((0.33 * Std1Test1 + 0.33 * Std1Test2 + 0.34 * Std1Assign) * 0.4 +
Std1Exam * 0.6),0);

            stdinfo[5, 1] = Std1Final;

            //Second student Final calculation
            int Std2Test1 = Convert.ToInt32(stdinfo[1, 2]);
            int Std2Test2 = Convert.ToInt32(stdinfo[2, 2]);
            int Std2Assign = Convert.ToInt32(stdinfo[3, 2]);
            int Std2Exam = Convert.ToInt32(stdinfo[4, 2]);
            double Std2Final = Math.Round(((0.33 * Std2Test1 + 0.33 * Std2Test2 + 0.34 * Std2Assign) * 0.4 +
Std2Exam * 0.6),0);

            stdinfo[5, 2] = Std2Final;

            //Third student Final calculation
```

```
            int Std3Test1 = Convert.ToInt32(stdinfo[1, 3]);
            int Std3Test2 = Convert.ToInt32(stdinfo[2, 3]);
            int Std3Assign = Convert.ToInt32(stdinfo[3, 3]);
            int Std3Exam = Convert.ToInt32(stdinfo[4, 3]);
            double Std3Final = Math.Round(((0.33 * Std3Test1 + 0.33 * Std3Test2 + 0.34 * Std3Assign) * 0.4 +
Std3Exam * 0.6),0);

            stdinfo[5, 3] = Std3Final;

            //Fouth student Final calculation
            int Std4Test1 = Convert.ToInt32(stdinfo[1, 4]);
            int Std4Test2 = Convert.ToInt32(stdinfo[2, 4]);
            int Std4Assign = Convert.ToInt32(stdinfo[3, 4]);
            int Std4Exam = Convert.ToInt32(stdinfo[4, 4]);
            double Std4Final = Math.Round(((0.33 * Std4Test1 + 0.33 * Std4Test2 + 0.34 * Std4Assign) * 0.4 +
Std4Exam * 0.6),0);

            stdinfo[5, 4] = Std4Final;

            //Fifth student Final calculation
            int Std5Test1 = Convert.ToInt32(stdinfo[1, 5]);
            int Std5Test2 = Convert.ToInt32(stdinfo[2, 5]);
            int Std5Assign = Convert.ToInt32(stdinfo[3, 5]);
            int Std5Exam = Convert.ToInt32(stdinfo[4, 5]);
            double Std5Final = Math.Round(((0.33 * Std5Test1 + 0.33 * Std5Test2 + 0.34 * Std5Assign) * 0.4 +
Std5Exam * 0.6),0);

            stdinfo[5, 5] = Std5Final;

            //Sixth student Final calculation
            int Std6Test1 = Convert.ToInt32(stdinfo[1, 6]);
            int Std6Test2 = Convert.ToInt32(stdinfo[2, 6]);
            int Std6Assign = Convert.ToInt32(stdinfo[3, 6]);
            int Std6Exam = Convert.ToInt32(stdinfo[4, 6]);
            double Std6Final = Math.Round(((0.33 * Std6Test1 + 0.33 * Std6Test2 + 0.34 * Std6Assign) * 0.4 +
Std6Exam * 0.6),0);

            stdinfo[5, 6] = Std6Final;

            //Seventh student Final calculation
            int Std7Test1 = Convert.ToInt32(stdinfo[1, 7]);
            int Std7Test2 = Convert.ToInt32(stdinfo[2, 7]);
            int Std7Assign = Convert.ToInt32(stdinfo[3, 7]);
            int Std7Exam = Convert.ToInt32(stdinfo[4, 7]);
            double Std7Final = Math.Round(((0.33 * Std7Test1 + 0.33 * Std7Test2 + 0.34 * Std7Assign) * 0.4 +
Std7Exam * 0.6),0);
```

```
            stdinfo[5, 7] = Std7Final;

            //Eighth student Final calculation
            int Std8Test1 = Convert.ToInt32(stdinfo[1, 8]);
            int Std8Test2 = Convert.ToInt32(stdinfo[2, 8]);
            int Std8Assign = Convert.ToInt32(stdinfo[3, 8]);
            int Std8Exam = Convert.ToInt32(stdinfo[4, 8]);
            double Std8Final = Math.Round(((0.33 * Std8Test1 + 0.33 * Std8Test2 + 0.34 * Std8Assign) * 0.4 +
Std8Exam * 0.6),0);

            stdinfo[5, 8] = Std8Final;

            Console.WriteLine("\t");
            Console.WriteLine("++++++++++++++++++++++++++++++++++++++++++++");
            Console.WriteLine("\t");

            //Display Table
            for (int i = 0; i < 6; i++)
            {
               for (int j = 0; j < 9; j++)
               {

                  Console.Write(stdinfo[i, j] + "   ");

               }
               Console.WriteLine();
            }

            Console.WriteLine("\t");
            Console.WriteLine("++++++++++++++++++++++++++++++++++++++++++++");
            Console.WriteLine("\t");

            //Average calculation
            double av = 8;
            double Test1Average = (Convert.ToDouble(stdinfo[1, 1]) + Convert.ToDouble(stdinfo[1, 2]) +
Convert.ToDouble(stdinfo[1, 3]) + Convert.ToDouble(stdinfo[1, 4])
                  + Convert.ToDouble(stdinfo[1, 5]) + Convert.ToDouble(stdinfo[1, 6]) + Convert.ToDouble(stdinfo[1,
7]) + Convert.ToDouble(stdinfo[1, 8])) / av;

            double Test2Average = (Convert.ToDouble(stdinfo[2, 1]) + Convert.ToDouble(stdinfo[2, 2]) +
Convert.ToDouble(stdinfo[2, 3]) + Convert.ToDouble(stdinfo[2, 4])
                  + Convert.ToDouble(stdinfo[2, 5]) + Convert.ToDouble(stdinfo[2, 6]) + Convert.ToDouble(stdinfo[2,
7]) + Convert.ToDouble(stdinfo[2, 8])) / av;
```

```
        double AssignmentAverage = (Convert.ToDouble(stdinfo[3, 1]) + Convert.ToDouble(stdinfo[3, 2]) +
Convert.ToDouble(stdinfo[3, 3]) + Convert.ToDouble(stdinfo[3, 4])
            + Convert.ToDouble(stdinfo[3, 5]) + Convert.ToDouble(stdinfo[3, 6]) + Convert.ToDouble(stdinfo[3,
7]) + Convert.ToDouble(stdinfo[3, 8])) / av;

        double ExamAverage = (Convert.ToDouble(stdinfo[4, 1]) + Convert.ToDouble(stdinfo[4, 2]) +
Convert.ToDouble(stdinfo[4, 3]) + Convert.ToDouble(stdinfo[4, 4])
            + Convert.ToDouble(stdinfo[4, 5]) + Convert.ToDouble(stdinfo[4, 6]) + Convert.ToDouble(stdinfo[4,
7]) + Convert.ToDouble(stdinfo[4, 8])) / av;


        //Display Averages
        Console.WriteLine("Test1 Average is:" + " " + Math.Round(Test1Average,0));
        Console.WriteLine("\t");
        Console.WriteLine("Test2 Average is:" + " " + Math.Round(Test2Average,0));
        Console.WriteLine("\t");
        Console.WriteLine("Assignment Average is:" + " " + Math.Round(AssignmentAverage,0));
        Console.WriteLine("\t");
        Console.WriteLine("Exam Average is:" + " " + Math.Round(ExamAverage,0));
        Console.WriteLine("\t");

        Console.WriteLine("++++++++++++++++++++++++++++++++++++++++++");
        Console.WriteLine("\t");

        //Student1 Pass or Fail
        if (Std1Final < 50)
        {
           Console.WriteLine("Student:" + " " + stdinfo[0, 1] + " " + "Fail");
        }
        else
        {
           Console.WriteLine("Student:" + " " + stdinfo[0, 1] + " " + "Pass");
        }
        Console.WriteLine("\t");


        //Student2 Pass or Fail
        if (Std2Final < 50)
        {
           Console.WriteLine("Student:" + " " + stdinfo[0, 2] + " " + "Fail");
        }
        else
        {
           Console.WriteLine("Student:" + " " + stdinfo[0, 2] + " " + "Pass");
        }
        Console.WriteLine("\t");
```

```
//Student3 Pass or Fail
if (Std3Final < 50)
{
   Console.WriteLine("Student:" + " " + stdinfo[0, 3] + " " + "Fail");
}
else
{
   Console.WriteLine("Student:" + " " + stdinfo[0, 3] + " " + "Pass");
}
Console.WriteLine("\t");

//Student4 Pass or Fail
if (Std4Final < 50)
{
   Console.WriteLine("Student:" + " " + stdinfo[0, 4] + " " + "Fail");
}
else
{
   Console.WriteLine("Student:" + " " + stdinfo[0, 4] + " " + "Pass");
}
Console.WriteLine("\t");

//Student5 Pass or Fail
if (Std5Final < 50)
{
   Console.WriteLine("Student:" + " " + stdinfo[0, 5] + " " + "Fail");
}
else
{
   Console.WriteLine("Student:" + " " + stdinfo[0, 5] + " " + "Pass");
}
Console.WriteLine("\t");

//Student6 Pass or Fail
if (Std6Final < 50)
{
   Console.WriteLine("Student:" + " " + stdinfo[0, 6] + " " + "Fail");
}
else
{
   Console.WriteLine("Student:" + " " + stdinfo[0, 6] + " " + "Pass");
}
Console.WriteLine("\t");

//Student7 Pass or Fail
```

```
            if (Std7Final < 50)
            {
                Console.WriteLine("Student:" + " " + stdinfo[0, 7] + " " + "Fail");
            }
            else
            {
                Console.WriteLine("Student:" + " " + stdinfo[0, 7] + " " + "Pass");
            }
            Console.WriteLine("\t");

            //Student8 Pass or Fail
            if (Std8Final < 50)
            {
                Console.WriteLine("Student:" + " " + stdinfo[0, 8] + " " + "Fail");
            }
            else
            {
                Console.WriteLine("Student:" + " " + stdinfo[0, 8] + " " + "Pass");
            }

            //Write to file
            string path = "c:\\Users\\Motub\\Desktop\\marks.txt";
            using (StreamWriter vv = new StreamWriter(path, true))
            {
                vv.WriteLine("Student Number" + " " + stdinfo[0, 1] + ":" + " " + Std1Final);
                vv.WriteLine("Student Number" + " " + stdinfo[0, 2] + ":" + " " + Std2Final);
                vv.WriteLine("Student Number" + " " + stdinfo[0, 3] + ":" + " " + Std3Final);
                vv.WriteLine("Student Number" + " " + stdinfo[0, 4] + ":" + " " + Std4Final);
                vv.WriteLine("Student Number" + " " + stdinfo[0, 5] + ":" + " " + Std5Final);
                vv.WriteLine("Student Number" + " " + stdinfo[0, 6] + ":" + " " + Std6Final);
                vv.WriteLine("Student Number" + " " + stdinfo[0, 7] + ":" + " " + Std7Final);
                vv.WriteLine("Student Number" + " " + stdinfo[0, 8] + ":" + " " + Std8Final);
                vv.Close();
            }
        }
        catch (Exception e)
        {
            Console.WriteLine("An Error Ocurred");
        }
    }
  }
}
```

References

Sharp, J. (*2018*) Microsoft Visual C# Step By Step Ninth Edition, Pearson Education, Inc, USA

Griffiths, I. (*2019*) Programming C# 8.0: Build Cloud, Web, and Desktop Applications, O'Reilly Media, Inc, USA,

Chan, J. (*2015*) Learn C# in One Day and Learn It Well, Jamie Chan, USA

Skeet, J. (*2019*) C# in Depth Fourth Edition, Manning Publications Co. , USA

McGrath, M. (*2016*) C# Programming: C# Fundamentals At Your Fingertips, Easy Steps Limited, England

End of Assignment