**Screenshots**

Text

Description automatically generatedText

Description automatically generated

**Code**

using System;

using System.Collections.Generic;

using System.Data;

using System.IO;

using System.Linq;

using System.Security.Policy;

using System.Text;

using System.Text.RegularExpressions;

using System.Threading.Tasks;

namespace Class\_Practice\_6

{

internal class Program

{

static void Main(string[] args)

{

// Call of most of the int values and declaration of them (set to 0)

int Number\_Of\_Students, Average, Highest, Above\_Average;

Average = 0;

Above\_Average = 0;

Console.Write("Enter the number of students you will be working with today: ");

Number\_Of\_Students = Convert.ToInt16(Console.ReadLine());

// Call of arrays

string[] names = new string[Number\_Of\_Students];

int[] grades = new int[Number\_Of\_Students];

// Call & declaration (set to 0) of array related values

string Highest\_Student = names[0];

Highest = grades[0];

Console.WriteLine("\nType the name and grade of the student, press enter after each input\n");

// User input for loop

for (int i = 0; i < Number\_Of\_Students; i++)

{

Console.Write("Name {0} : ", i+1);

names[i] = Console.ReadLine();

Console.Write("Grade {0} : ", i+1);

grades[i] = Convert.ToInt16(Console.ReadLine());

Console.WriteLine("");

}

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

// User output + average calculation

for (int i = 0; i < Number\_Of\_Students; i++)

{

Console.WriteLine(names[i] + "\t\t" + grades[i]);

Average += grades[i];

}

// Highest calculations

for (int i = 0; i < Number\_Of\_Students; i++)

{

if (Highest < grades[i])

{

Highest = grades[i];

Highest\_Student = names[i];

}

}

Average = Average / Number\_Of\_Students;

// Students above average calculation

for (int i = 0; i < Number\_Of\_Students; i++)

{

if (grades[i] > Average)

{

Above\_Average++;

}

}

Console.WriteLine("\n");

Console.WriteLine(Highest\_Student + " has the highest score " + Highest + " in the class");

Console.WriteLine("The average score of the class is: " + Average);

Console.WriteLine(Above\_Average + " students are above average score");

Console.WriteLine("");

}

}

}

**Project notes**

There’s multiple for loops to clarify to the reader & coder the function behind every main step/solution that is being targeted.

The 3 for loops can be done within a big for loop for efficiency / memory usage.

Certain spacing has been done for clarity.

I used Number\_Of\_Students as is easier to use for both the exercise and testing. It can be set to 26 if wanted, as is the first input required for the user.