using System.ComponentModel.DataAnnotations;

using System.Diagnostics.CodeAnalysis;

using System.Numerics;

using System.Reflection.Metadata;

using System.Xml.Linq;

namespace lab2b

{

internal class Program

{

static void Main(string[] args)

{

Console.WriteLine("\n\t \*\* Student Ranking System \*\*\n");

//4 rows,5 columns

string[,] array2Db = new string[4, 5];

string[] prints = { "Maths","English","Science","IT" };

for (int i =0; i<4; i++)

{

Console.WriteLine("\n\n-- Student {0} Details.--\n",i+1);

Console.Write("\n\* Enter Name:-");

array2Db[i, 0] = Console.ReadLine();

for(int n=0; n<4; n++)

{

Console.Write("\n\* Enter {0}'s {1} Marks :- ", array2Db[i, 0], prints[n]);

array2Db[i, n + 1] = Console.ReadLine();

}

}

Console.WriteLine("\n\n\t \*\* Students and Marks \*\*\n");

for (int l = 0; l < 4; l++)

{

string[,] avarageStu = new string[2,4];

Console.Write("{0} ", array2Db[l, 0]);

for (int m = 0; m < 4; m++)

{

avarageStu[l, 0] = array2Db[l, 0];

//averageStu[l,1] = Integer.ParseInt()

//Console.Write(", {0} ",array2Db[l, m]);

}

Console.WriteLine("\n");

}

}

}

}

var StudentMarkList = new List<MarkList>();

for (int i = 0; i < 4; i++)

{

new Person { Id = 3, IsLiving = true, Name = "James" }

};

}

public class Person

{

public string Name { get; set; }

public int MathsMarks { get; set; }

public int EnglishMarks { get; set; }

public int ScienceMarks { get; set; }

public int ITMarks { get; set; }

using System;

using System.Collections;

using System.Text;

public class Methods

{

public static void LogFile(string action, string message, string eventType="Normal")

{

String txtFile = @"C:\Users\Tharindu\Documents\C app\Log.txt";

StreamWriter log;

if (!File.Exists(txtFile))

{

log = new StreamWriter(txtFile);

}

else

{

log = File.AppendText(txtFile);

}

log.WriteLine(DateTime.Now);

if (eventType == "error")

{

log.WriteLine("Error type: " + action);

log.WriteLine("Message: " + message);

}

else

{

log.WriteLine("Action: " + action);

log.WriteLine("Message: " + message);

}

log.Close();

}

}

class Student

{

public string name;

public int total, rank;

int[] marks = new int[4];

public void addData()

{

Console.Write("Enter Name: ");

name = Console.ReadLine();

Methods.LogFile("user entered name", name);

Console.Write("Enter Maths Marks: ");

marks[0] = Convert.ToInt32(Console.ReadLine());

Methods.LogFile("user entered Maths marks", marks[0].ToString());

Console.Write("Enter English Marks: ");

marks[1] = Convert.ToInt32(Console.ReadLine());

Methods.LogFile("user entered English marks", marks[1].ToString());

Console.Write("Enter Science Marks: ");

marks[2] = Convert.ToInt32(Console.ReadLine());

Methods.LogFile("user entered Science marks", marks[2].ToString());

Console.Write("Enter IT Marks: ");

marks[3] = Convert.ToInt32(Console.ReadLine());

Methods.LogFile("user entered IT marks", marks[3].ToString());

}

public void calculateTotal()

{

total = marks[0] + marks[1] + marks[2] + marks[3];

}

public string getBestSubject()

{

int maxValue = marks.Max();

int maxIndex = marks.ToList().IndexOf(maxValue);

if (maxIndex == 0) return "Maths";

else if (maxIndex == 1) return "English";

else if (maxIndex == 2) return "Science";

else if (maxIndex == 3) return "IT";

else return "";

}

}

public class ConsoleApplication

{

public static void Main(string[] args)

{

String csvFile = @"C:\Users\Tharindu\Documents\C app\Output.csv";

Console.Write("How many students are there in the class?");

int studentCount = Convert.ToInt32(Console.ReadLine());

Student[] students = new Student[studentCount];

int[] studentTotalMarks = new int[studentCount];

for (int i = 0; i < studentCount; i++)

{

students[i] = new Student();

students[i].addData();

students[i].calculateTotal();

studentTotalMarks[i] = students[i].total;

}

Array.Sort(studentTotalMarks);

for (int i = 0; i < studentCount; i++)

{

for (int j = 0; j < studentCount; j++)

{

if (students[i].total == studentTotalMarks[j])

{

students[i].rank = j + 1;

}

}

}

String separator = ",";

StringBuilder output = new StringBuilder();

String[] headings = { "Student Name", "Rank", "Best Subject" };

output.AppendLine(string.Join(separator, headings));

foreach (Student student in students)

{

String[] newLine = {

student.name,

student.rank.ToString(),

student.getBestSubject().ToString() };

output.AppendLine(string.Join(separator, newLine));

}

try

{

File.AppendAllText(csvFile, output.ToString());

}

catch (Exception ex)

{

Console.WriteLine("Data could not be written to the CSV file.");

return;

}

Console.WriteLine("The data has been successfully saved to the CSV file");

}

}

using System;

namespace ConsoleAppStudentRankingSystem

{

internal class Program

{

static void Main(string[] args)

{

Console.WriteLine("\n\t \*\* Student Ranking System \*\*\n"); //Topic

string[] Subjects = { "Maths", "English", "Science", "IT" }; //Subjects Array

Console.Write("\nEnter the Number of Students in the class :- "); //Get Number of Students to be calculated

int NumofStud =Convert.ToInt32(Console.ReadLine());

String[] StudentName = new String[NumofStud];

Double[]StudentMarks=new double[Subjects.Length];

Double[] StudentAverage = new double[NumofStud];

string[] StudentMaxSub =new string[Subjects.Length];

for (int i = 0; i < NumofStud; i++)

{

Console.WriteLine("\n\n-- Student {0} Details.--\n", i + 1);

Console.Write("\n\* Enter Name:- ");

StudentName[i] = Console.ReadLine();

for (int n = 0; n < Subjects.Length; n++)

{

Console.Write("\n\* Enter {0}'s {1} Marks :- ", StudentName[i], Subjects[n]);

StudentMarks[n] = Convert.ToInt32(Console.ReadLine());

}

int IndexofMaxMarks = Array.IndexOf(StudentMarks, StudentMarks.Max());

StudentMaxSub[i]= Subjects[IndexofMaxMarks]; //IndexofMaxMarks=Index of MaxSub

StudentAverage[i] = (StudentMarks.Sum()/(StudentMarks.Length));

}

var RankArray = StudentAverage.Clone(); //Clone of Rank Array

Array.Sort((Array)RankArray); //Sort Clone Array

Array.Reverse((Array)(RankArray));

Console.WriteLine("Ascending: ");

foreach (double value in StudentAverage)

{

Console.Write(value + " ");

}

Console.WriteLine("\n\n\t \*\* Students and Marks \*\*\n");

for(int m = 0; m < NumofStud; m++)

{

int RankofStudent = Array.IndexOf((Array)RankArray, StudentAverage.GetValue(m))+1;

Console.WriteLine("{0}'s Average {1}\t Max Sub {2}\t Rank {3}", StudentName[m], StudentAverage[m], StudentMaxSub[m], RankofStudent);

}

Console.ReadKey();

}

}

class Student

{

}

}

using System;

public class FileHandler

{

public static void LogFile(string action, string message, string eventType = "Normal")

{

String txtFile = @"D:\hey\C#\ConsoleAppStudentRankingSystem\ConsoleAppStudentRankingSystem\Log.txt";

StreamWriter log;

if (!File.Exists(txtFile))

{

log = new StreamWriter(txtFile);

}

else

{

log = File.AppendText(txtFile);

}

log.WriteLine(DateTime.Now);

if (eventType == "error")

{

log.WriteLine("Error type: " + action);

log.WriteLine("Message: " + message);

}

else

{

log.WriteLine("Action: " + action);

log.WriteLine("Message: " + message);

}

log.Close();

}

}

c