int[] sophiaScores = new int[] { 90, 86, 87, 98, 100 };

int[] andrewScores = new int[] { 92, 89, 81, 96, 90 };

int[] emmaScores = new int[] { 90, 85, 87, 98, 68 };

int[] loganScores = new int[] { 90, 95, 87, 88, 96 };

int sophiaSum = 0;

foreach (int score in sophiaScores)

{

// add the exam score to the sum

sophiaSum += score;

}

using System;

// initialize variables - graded assignments

//int[] sophiaScores = new int[5]; foi trocada para linha abaixo

//int[] sophiaScores = new int[] { 90, 86, 87, 98, 100 }; incrementada para novas linhas

int currentAssignments = 5;

int[] sophiaScores = new int[] { 90, 86, 87, 98, 100 };

int[] andrewScores = new int[] { 92, 89, 81, 96, 90 };

int[] emmaScores = new int[] { 90, 85, 87, 98, 68 };

int[] loganScores = new int[] { 90, 95, 87, 88, 96 };

/\*

int sophia1 = 90;

int sophia2 = 86;

int sophia3 = 87;

int sophia4 = 98;

int sophia5 = 100;

int andrew1 = 92;

int andrew2 = 89;

int andrew3 = 81;

int andrew4 = 96;

int andrew5 = 90;

int emma1 = 90;

int emma2 = 85;

int emma3 = 87;

int emma4 = 98;

int emma5 = 68;

int logan1 = 90;

int logan2 = 95;

int logan3 = 87;

int logan4 = 88;

int logan5 = 96;

\*/

int sophiaSum = 0;

//int andrewSum = 0;

//int emmaSum = 0;

//int loganSum = 0;

decimal sophiaScore;

foreach (int score in sophiaScores)

{

// add the exam score to the sum

sophiaSum += score;

}

//decimal andrewScore;

//decimal emmaScore;

//decimal loganScore;

/\*

sophiaSum = sophia1 + sophia2 + sophia3 + sophia4 + sophia5;

andrewSum = andrew1 + andrew2 + andrew3 + andrew4 + andrew5;

emmaSum = emma1 + emma2 + emma3 + emma4 + emma5;

loganSum = logan1 + logan2 + logan3 + logan4 + logan5;

\*/

sophiaScore = (decimal)sophiaSum / currentAssignments;

//andrewScore = (decimal)andrewSum / currentAssignments;

//emmaScore = (decimal)emmaSum / currentAssignments;

//loganScore = (decimal)loganSum / currentAssignments;

Console.WriteLine("Student\t\tGrade\n");

Console.WriteLine("Sophia:\t\t" + sophiaScore + "\tA-");

//Console.WriteLine("Andrew:\t\t" + andrewScore + "\tB+");

//Console.WriteLine("Emma:\t\t" + emmaScore + "\tB");

//Console.WriteLine("Logan:\t\t" + loganScore + "\tA-");

Console.WriteLine("Press the Enter key to continue");

Console.ReadLine();

// Student names

string[] studentNames = new string[] { "Sophia", "Andrew", "Emma", "Logan" };

foreach (string name in studentNames)

{

Console.WriteLine($"{name}");

}

int sophiaSum = 0;

decimal sophiaScore;

foreach (int score in sophiaScores)

{

// add the exam score to the sum

sophiaSum += score;

}

sophiaScore = (decimal)sophiaSum / currentAssignments;

Console.WriteLine("Student\t\tGrade\n");

Console.WriteLine("Sophia:\t\t" + sophiaScore + "\tA-");

}

Console.WriteLine("Press the Enter key to continue");

Console.ReadLine();

// initialize variables - graded assignments

int currentAssignments = 5;

int[] sophiaScores = new int[] { 90, 86, 87, 98, 100 };

int[] andrewScores = new int[] { 92, 89, 81, 96, 90 };

int[] emmaScores = new int[] { 90, 85, 87, 98, 68 };

int[] loganScores = new int[] { 90, 95, 87, 88, 96 };

// Student names

string[] studentNames = new string[] {"Sophia", "Andrew", "Emma", "Logan"};

foreach (string name in studentNames)

{

if (name == "Sophia")

{

int sophiaSum = 0;

decimal sophiaScore;

foreach (int score in sophiaScores)

{

// add the exam score to the sum

sophiaSum += score;

}

sophiaScore = (decimal)(sophiaSum) / currentAssignments;

Console.WriteLine("Student\t\tGrade\n");

Console.WriteLine("Sophia:\t\t" + sophiaScore + "\tA-");

}

}

Console.WriteLine("Press the Enter key to continue");

Console.ReadLine();

string currentStudent = name;

if (currentStudent == "Sophia")

studentScores = sophiaScores;

else if (currentStudent == "Andrew")

studentScores = andrewScores;

else if (currentStudent == "Emma")

studentScores = emmaScores;

else if (currentStudent == "Logan")

studentScores = loganScores;

int sophiaSum = 0;

decimal sophiaScore;

foreach (int score in sophiaScores)

{

// add the exam score to the sum

sophiaSum += score;

}

// initialize variables - graded assignments

int currentAssignments = 5;

int[] sophiaScores = new int[] { 90, 86, 87, 98, 100 };

int[] andrewScores = new int[] { 92, 89, 81, 96, 90 };

int[] emmaScores = new int[] { 90, 85, 87, 98, 68 };

int[] loganScores = new int[] { 90, 95, 87, 88, 96 };

// Student names

string[] studentNames = new string[] { "Sophia", "Andrew", "Emma", "Logan" };

int[] studentScores = new int[10];

// Write the Report Header to the console

Console.WriteLine("Student\t\tGrade\n");

foreach (string name in studentNames)

{

string currentStudent = name;

if (currentStudent == "Sophia")

studentScores = sophiaScores;

else if (currentStudent == "Andrew")

studentScores = andrewScores;

else if (currentStudent == "Emma")

studentScores = emmaScores;

else if (currentStudent == "Logan")

studentScores = loganScores;

// initialize/reset the sum of scored assignments

int sumAssignmentScores = 0;

// initialize/reset the calculated average of exam + extra credit scores

decimal currentStudentGrade = 0;

foreach (int score in studentScores)

{

// add the exam score to the sum

sumAssignmentScores += score;

}

currentStudentGrade = (decimal)(sumAssignmentScores) / currentAssignments;

Console.WriteLine($"{currentStudent}\t\t{currentStudentGrade}\t?");

}

// initialize variables - graded assignments

int currentAssignments = 5;

int[] sophiaScores = new int[] { 90, 86, 87, 98, 100 };

int[] andrewScores = new int[] { 92, 89, 81, 96, 90 };

int[] emmaScores = new int[] { 90, 85, 87, 98, 68 };

int[] loganScores = new int[] { 90, 95, 87, 88, 96 };

// Student names

string[] studentNames = new string[] { "Sophia", "Andrew", "Emma", "Logan" };

int[] studentScores = new int[10];

string currentStudentLetterGrade = "";

// Display the Report Header

Console.WriteLine("Student\t\tGrade\n");

foreach (string name in studentNames)

{

string currentStudent = name;

if (currentStudent == "Sophia")

// assign Sophia's scores to the studentScores array

studentScores = sophiaScores;

else if (currentStudent == "Andrew")

// assign Andrew's scores to the studentScores array

studentScores = andrewScores;

else if (currentStudent == "Emma")

// assign Emma's scores to the studentScores array

studentScores = emmaScores;

else if (currentStudent == "Logan")

// assign Logan's scores to the studentScores array

studentScores = loganScores;

// initialize/reset the sum of scored assignments

int sumAssignmentScores = 0;

// initialize/reset the calculated average of exam + extra credit scores

decimal currentStudentGrade = 0;

foreach (int score in studentScores)

{

// add the exam score to the sum

sumAssignmentScores += score;

}

currentStudentGrade = (decimal)(sumAssignmentScores) / currentAssignments;

if (currentStudentGrade >= 97)

currentStudentLetterGrade = "A+";

else if (currentStudentGrade >= 93)

currentStudentLetterGrade = "A";

else if (currentStudentGrade >= 90)

currentStudentLetterGrade = "A-";

else if (currentStudentGrade >= 87)

currentStudentLetterGrade = "B+";

else if (currentStudentGrade >= 83)

currentStudentLetterGrade = "B";

else if (currentStudentGrade >= 80)

currentStudentLetterGrade = "B-";

else if (currentStudentGrade >= 77)

currentStudentLetterGrade = "C+";

else if (currentStudentGrade >= 73)

currentStudentLetterGrade = "C";

else if (currentStudentGrade >= 70)

currentStudentLetterGrade = "C-";

else if (currentStudentGrade >= 67)

currentStudentLetterGrade = "D+";

else if (currentStudentGrade >= 63)

currentStudentLetterGrade = "D";

else if (currentStudentGrade >= 60)

currentStudentLetterGrade = "D-";

else

currentStudentLetterGrade = "F";

Console.WriteLine($"{name}\t\t{currentStudentGrade}\t?");

}

Console.WriteLine("Press the Enter key to continue");

Console.ReadLine();

Console.WriteLine($"{currentStudent}\t\t{currentStudentGrade}\t{currentStudentLetterGrade}");

// initialize/reset a counter for the number of assignment

int gradedAssignments = 0;

// initialize variables - graded assignments

//int currentAssignments = 5;

int examAssignments = 5;

int[] sophiaScores = new int[] { 90, 86, 87, 98, 100 };

int[] andrewScores = new int[] { 92, 89, 81, 96, 90 };

int[] emmaScores = new int[] { 90, 85, 87, 98, 68 };

int[] loganScores = new int[] { 90, 95, 87, 88, 96 };

// Student names

string[] studentNames = new string[] { "Sophia", "Andrew", "Emma", "Logan" };

int[] studentScores = new int[10];

string currentStudentLetterGrade = "";

// Display the Report Header

Console.WriteLine("Student\t\tGrade\n");

foreach (string name in studentNames)

{

string currentStudent = name;

if (currentStudent == "Sophia")

// assign Sophia's scores to the studentScores array

studentScores = sophiaScores;

else if (currentStudent == "Andrew")

// assign Andrew's scores to the studentScores array

studentScores = andrewScores;

else if (currentStudent == "Emma")

// assign Emma's scores to the studentScores array

studentScores = emmaScores;

else if (currentStudent == "Logan")

// assign Logan's scores to the studentScores array

studentScores = loganScores;

// initialize/reset the sum of scored assignments

int sumAssignmentScores = 0;

// initialize/reset the calculated average of exam + extra credit scores

decimal currentStudentGrade = 0;

foreach (int score in studentScores)

{

// add the exam score to the sum

sumAssignmentScores += score;

}

currentStudentGrade = (decimal)(sumAssignmentScores) / currentAssignments;

if (currentStudentGrade >= 97)

currentStudentLetterGrade = "A+";

else if (currentStudentGrade >= 93)

currentStudentLetterGrade = "A";

else if (currentStudentGrade >= 90)

currentStudentLetterGrade = "A-";

else if (currentStudentGrade >= 87)

currentStudentLetterGrade = "B+";

else if (currentStudentGrade >= 83)

currentStudentLetterGrade = "B";

else if (currentStudentGrade >= 80)

currentStudentLetterGrade = "B-";

else if (currentStudentGrade >= 77)

currentStudentLetterGrade = "C+";

else if (currentStudentGrade >= 73)

currentStudentLetterGrade = "C";

else if (currentStudentGrade >= 70)

currentStudentLetterGrade = "C-";

else if (currentStudentGrade >= 67)

currentStudentLetterGrade = "D+";

else if (currentStudentGrade >= 63)

currentStudentLetterGrade = "D";

else if (currentStudentGrade >= 60)

currentStudentLetterGrade = "D-";

else

currentStudentLetterGrade = "F";

Console.WriteLine($"{currentStudent}\t\t{currentStudentGrade}\t{currentStudentLetterGrade}");

}

Console.WriteLine("Press the Enter key to continue");

Console.ReadLine();

// initialize variables - graded assignments

int examAssignments = 5;

int[] sophiaScores = new int[] { 90, 86, 87, 98, 100, 94, 90 };

int[] andrewScores = new int[] { 92, 89, 81, 96, 90, 89 };

int[] emmaScores = new int[] { 90, 85, 87, 98, 68, 89, 89, 89 };

int[] loganScores = new int[] { 90, 95, 87, 88, 96, 96 };

// Student names

string[] studentNames = new string[] { "Sophia", "Andrew", "Emma", "Logan" };

int[] studentScores = new int[10];

string currentStudentLetterGrade = "";

// Write the Report Header to the console

Console.WriteLine("Student\t\tGrade\n");

foreach (string name in studentNames)

{

string currentStudent = name;

if (currentStudent == "Sophia")

studentScores = sophiaScores;

else if (currentStudent == "Andrew")

studentScores = andrewScores;

else if (currentStudent == "Emma")

studentScores = emmaScores;

else if (currentStudent == "Logan")

studentScores = loganScores;

// initialize/reset the sum of scored assignments

int sumAssignmentScores = 0;

// initialize/reset the calculated average of exam + extra credit scores

decimal currentStudentGrade = 0;

// initialize/reset a counter for the number of assignment

int gradedAssignments = 0;

// loop through the scores array and complete calculations for currentStudent

foreach (int score in studentScores)

{

// increment the assignment counter

gradedAssignments += 1;

if (gradedAssignments <= examAssignments)

// add the exam score to the sum

sumAssignmentScores += score;

else

// add the extra credit points to the sum - bonus points equal to 10% of an exam score

sumAssignmentScores += score / 10;

}

currentStudentGrade = (decimal)(sumAssignmentScores) / examAssignments;

if (currentStudentGrade >= 97)

currentStudentLetterGrade = "A+";

else if (currentStudentGrade >= 93)

currentStudentLetterGrade = "A";

else if (currentStudentGrade >= 90)

currentStudentLetterGrade = "A-";

else if (currentStudentGrade >= 87)

currentStudentLetterGrade = "B+";

else if (currentStudentGrade >= 83)

currentStudentLetterGrade = "B";

else if (currentStudentGrade >= 80)

currentStudentLetterGrade = "B-";

else if (currentStudentGrade >= 77)

currentStudentLetterGrade = "C+";

else if (currentStudentGrade >= 73)

currentStudentLetterGrade = "C";

else if (currentStudentGrade >= 70)

currentStudentLetterGrade = "C-";

else if (currentStudentGrade >= 67)

currentStudentLetterGrade = "D+";

else if (currentStudentGrade >= 63)

currentStudentLetterGrade = "D";

else if (currentStudentGrade >= 60)

currentStudentLetterGrade = "D-";

else

currentStudentLetterGrade = "F";

//Console.WriteLine("Student\t\tGrade\tLetter Grade\n");

Console.WriteLine($"{currentStudent}\t\t{currentStudentGrade}\t{currentStudentLetterGrade}");

}

// required for running in VS Code (keeps the Output windows open to view results)

Console.WriteLine("\n\rPress the Enter key to continue");

Console.ReadLine();

int[] sophiaScores = new int[] { 90, 86, 87, 98, 100, 94, 90 };

int[] andrewScores = new int[] { 92, 89, 81, 96, 90, 89 };

int[] emmaScores = new int[] { 90, 85, 87, 98, 68, 89, 89, 89 };

int[] loganScores = new int[] { 90, 95, 87, 88, 96, 96 };

int[] beckyScores = new int[] { 92, 91, 90, 91, 92, 92, 92 };

int[] chrisScores = new int[] { 84, 86, 88, 90, 92, 94, 96, 98 };

int[] ericScores = new int[] { 80, 90, 100, 80, 90, 100, 80, 90 };

int[] gregorScores = new int[] { 91, 91, 91, 91, 91, 91, 91 };

// Student names

string[] studentNames = new string[] { "Sophia", "Andrew", "Emma", "Logan", "Becky", "Chris", "Eric", "Gregor" };

if (currentStudent == "Sophia")

studentScores = sophiaScores;

else if (currentStudent == "Andrew")

studentScores = andrewScores;

else if (currentStudent == "Emma")

studentScores = emmaScores;

else if (currentStudent == "Logan")

studentScores = loganScores;

else if (currentStudent == "Becky")

studentScores = beckyScores;

else if (currentStudent == "Chris")

studentScores = chrisScores;

else if (currentStudent == "Eric")

studentScores = ericScores;

else if (currentStudent == "Gregor")

studentScores = gregorScores;

else

continue;

// initialize variables - graded assignments

int examAssignments = 5;

int[] sophiaScores = new int[] { 90, 86, 87, 98, 100, 94, 90 };

int[] andrewScores = new int[] { 92, 89, 81, 96, 90, 89 };

int[] emmaScores = new int[] { 90, 85, 87, 98, 68, 89, 89, 89 };

int[] loganScores = new int[] { 90, 95, 87, 88, 96, 96 };

int[] beckyScores = new int[] { 92, 91, 90, 91, 92, 92, 92 };

int[] chrisScores = new int[] { 84, 86, 88, 90, 92, 94, 96, 98 };

int[] ericScores = new int[] { 80, 90, 100, 80, 90, 100, 80, 90 };

int[] gregorScores = new int[] { 91, 91, 91, 91, 91, 91, 91 };

// Student names

string[] studentNames = new string[] { "Sophia", "Andrew", "Emma", "Logan", "Becky", "Chris", "Eric", "Gregor" };

int[] studentScores = new int[10];

string currentStudentLetterGrade = "";

// Write the Report Header to the console

Console.WriteLine("Student\t\tGrade\n");

foreach (string name in studentNames)

{

string currentStudent = name;

if (currentStudent == "Sophia")

studentScores = sophiaScores;

else if (currentStudent == "Andrew")

studentScores = andrewScores;

else if (currentStudent == "Emma")

studentScores = emmaScores;

else if (currentStudent == "Logan")

studentScores = loganScores;

else if (currentStudent == "Becky")

studentScores = beckyScores;

else if (currentStudent == "Chris")

studentScores = chrisScores;

else if (currentStudent == "Eric")

studentScores = ericScores;

else if (currentStudent == "Gregor")

studentScores = gregorScores;

else

continue;

// initialize/reset the sum of scored assignments

int sumAssignmentScores = 0;

// initialize/reset the calculated average of exam + extra credit scores

decimal currentStudentGrade = 0;

// initialize/reset a counter for the number of assignment

int gradedAssignments = 0;

// loop through the scores array and complete calculations for currentStudent

foreach (int score in studentScores)

{

// increment the assignment counter

gradedAssignments += 1;

if (gradedAssignments <= examAssignments)

// add the exam score to the sum

sumAssignmentScores += score;

else

// add the extra credit points to the sum - bonus points equal to 10% of an exam score

sumAssignmentScores += score / 10;

}

currentStudentGrade = (decimal)(sumAssignmentScores) / examAssignments;

if (currentStudentGrade >= 97)

currentStudentLetterGrade = "A+";

else if (currentStudentGrade >= 93)

currentStudentLetterGrade = "A";

else if (currentStudentGrade >= 90)

currentStudentLetterGrade = "A-";

else if (currentStudentGrade >= 87)

currentStudentLetterGrade = "B+";

else if (currentStudentGrade >= 83)

currentStudentLetterGrade = "B";

else if (currentStudentGrade >= 80)

currentStudentLetterGrade = "B-";

else if (currentStudentGrade >= 77)

currentStudentLetterGrade = "C+";

else if (currentStudentGrade >= 73)

currentStudentLetterGrade = "C";

else if (currentStudentGrade >= 70)

currentStudentLetterGrade = "C-";

else if (currentStudentGrade >= 67)

currentStudentLetterGrade = "D+";

else if (currentStudentGrade >= 63)

currentStudentLetterGrade = "D";

else if (currentStudentGrade >= 60)

currentStudentLetterGrade = "D-";

else

currentStudentLetterGrade = "F";

//Console.WriteLine("Student\t\tGrade\tLetter Grade\n");

Console.WriteLine($"{currentStudent}\t\t{currentStudentGrade}\t{currentStudentLetterGrade}");

}

// required for running in VS Code (keeps the Output windows open to view results)

Console.WriteLine("\n\rPress the Enter key to continue");

Console.ReadLine();

/\*

//USANDO OPERADOR DE IGUALDADE

Console.WriteLine("a" == "a");

Console.WriteLine("a" == "A");

Console.WriteLine(1 == 2);

string myValue = "a";

Console.WriteLine(myValue == "a");

//USANDO O OPERADOR DE DESIGUALDADE

Console.WriteLine("a" != "a");

Console.WriteLine("a" != "A");

Console.WriteLine(1 != 2);

string myValue = "a";

Console.WriteLine(myValue != "a");

//OPERADORES DE COMPARAÇÃO

Console.WriteLine(1 > 2);

Console.WriteLine(1 < 2);

Console.WriteLine(1 >= 1);

Console.WriteLine(1 <= 1);

//método que retorna um booliano

string pangram = "The quick brown fox jumps over the lazy dog.";

Console.WriteLine(pangram.Contains("fox"));

Console.WriteLine(pangram.Contains("cow"));

//operador de negação lógica

string pangram = "The quick brown fox jumps over the lazy dog.";

Console.WriteLine(!pangram.Contains("fox"));

Console.WriteLine(!pangram.Contains("cow"));

//desigualdade versus negação lógica

int a = 7;

int b = 6;

Console.WriteLine(a != b); // output: True

string s1 = "Hello";

string s2 = "Hello";

Console.WriteLine(s1 != s2); // output: False

\*/

/\*

//

int saleAmount = 1001;

int discount = saleAmount > 1000 ? 100 : 50;

Console.WriteLine($"Discount: {discount}");

int saleAmount = 1001;

// int discount = saleAmount > 1000 ? 100 : 50;

Console.WriteLine($"Discount: {(saleAmount > 1000 ? 100 : 50)}");

//desafio em que é preciso examinar a solução para o operador condicional

Random coin = new Random();

int flip = coin.Next(0, 2);

Console.WriteLine((flip == 0) ? "heads" : "tails");

//uma das soluções possíveis." Você poderia ter eliminado a

//variável temporária flip chamando o Next() dentro da expressão booliana

Random coin = new Random();

Console.WriteLine((coin.Next(0, 2) == 0) ? "heads" : "tails");

//Inicializar valores de permissão e nível

//string permission = "Admin|Manager";

//int level = 55;

string permission = "Admin|Manager";

int level = 53;

if (permission.Contains("Admin"))

{

if (level > 55)

{

Console.WriteLine("Welcome, Super Admin user.");

}

else

{

Console.WriteLine("Welcome, Admin user.");

}

}

else if (permission.Contains("Manager"))

{

if (level >= 20)

{

Console.WriteLine("Contact an Admin for access.");

}

else

{

Console.WriteLine("You do not have sufficient privileges.");

}

}

else

{

Console.WriteLine("You do not have sufficient privileges.");

}

\*/