

UNIVERSITY OF CALOOCAN CITY

Brgy. 173, Congressional Road, Caloocan City

COLLEGE OF LIBERAL ARTS AND SCIENCES PROGRAMMING LANGUAGES



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CS2A

Source Code:

```
* Student Grade Calculator
   This program allows users to calculate the final grades of students based on their preliminary, midterm, and
final term scores.
   It also determines if a student has passed or failed based on their average grade.
   Author: PP-Namias
  Licensed under the MIT License
   Activity#2:
   Create a C# program that will search at least 3 students' records,
   if found it will compute the final grades of the students
  by entering the PRELIM, MIDTERM & FINAL TERM and the Final Grades is the
  average of the 3 grades you have entered, and then by the determining
   the average of the students if the average is less than 75 it will display the word "FAILED"
   but if the average is more than 75 it will display "PASSED".
using System;
class Program
   static string[] studentNames = new string[100];
   static double[,] studentGrades = new double[100, 3];
   static int numberOfStudents = 0;
   static void Main(string[] args)
       Console.WriteLine("
      Console.WriteLine("
                                           \perp
                                                     | | / ____|
                         / ____| |
\perp
                              Console.WriteLine(" | (_
                        <u>____</u>;,
      Console.WriteLine("
                                  __| | | | | / _ ` | / _ \\ ' _ \\ | __| | | | | | | | ' _ / _ ` | / _ ` | / _ \\ | |
                               ///
      | | | | __ | | | | | | / _` | __/
                           ");
_/ \\.
while (true)
          Console.WriteLine(" ");
          Console.WriteLine("[ 1 ] Enter student grades");
Console.WriteLine("[ 2 ] Search for student records");
          Console.WriteLine("[ 3 ] Exit");
          Console.WriteLine(" ");
          Console.Write("Choose an option: ");
          int choice = int.Parse(Console.ReadLine());
          switch (choice)
              case 1:
                 EnterStudentGrades();
                 break;
              case 2:
                 SearchForStudentRecords();
                 break;
              case 3:
                 Environment.Exit(0);
                 break;
              default:
                 Console.WriteLine("Invalid choice. Please choose again.");
          }
       }
```



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```
static void EnterStudentGrades()
        Console.WriteLine(" ");
        Console.WriteLine("Enter Student Names and Grades:");
        Console.Write("Student Name: ")
        string name = Console.ReadLine();
        studentNames[numberOfStudents] = name;
        Console.Write("Prelim Grade: ");
        double prelimGrade = double.Parse(Console.ReadLine());
        studentGrades[numberOfStudents, 0] = prelimGrade;
        Console.Write("Midterm Grade: ");
double midtermGrade = double.Parse(Console.ReadLine());
        studentGrades[numberOfStudents, 1] = midtermGrade;
        Console.Write("Final Term Grade: ");
        double finalGrade = double.Parse(Console.ReadLine());
        studentGrades[numberOfStudents, 2] = finalGrade;
        double averageGrade = (prelimGrade + midtermGrade + finalGrade) / 3;
        Console.WriteLine($"Average Grade: {averageGrade}");
        string result = (averageGrade >= 75) ? "PASSED" : "FAILED";
        Console.WriteLine($"Result: {result}");
        numberOfStudents++;
   }
    static void SearchForStudentRecords()
        if (numberOfStudents == 0)
            Console.WriteLine("No student records found.");
        Console.WriteLine(" ");
        Console.WriteLine("List of Student Records:");
        Console.WriteLine("Student Number\tStudent Name");
        for (int i = 0; i < numberOfStudents; i++)</pre>
            Console.WriteLine($"{i + 1}\t\t{studentNames[i]}");
        Console.WriteLine(" ");
        Console.Write("Enter the student number to search or 0 to exit: ");
        int searchChoice = int.Parse(Console.ReadLine());
        if (searchChoice == 0)
            return;
        if (searchChoice > 0 && searchChoice <= numberOfStudents)</pre>
            int studentIndex = searchChoice - 1;
            Console.WriteLine($"Student Name: {studentNames[studentIndex]}")
            Console.WriteLine($"Prelim Grade: {studentGrades[studentIndex, 0]}");
            Console.WriteLine($"Midterm Grade: {studentGrades[studentIndex, 1]}")
            Console.WriteLine($"Final Term Grade: {studentGrades[studentIndex, 2]}");
            double averageGrade = (studentGrades[studentIndex, 0] + studentGrades[studentIndex, 1] +
studentGrades[studentIndex, 2]) / 3;
            Console.WriteLine($"Average Grade: {averageGrade}");
            string result = (averageGrade >= 75) ? "PASSED" : "FAILED";
            Console.WriteLine($"Result: {result}");
        }
        else
        {
            Console.WriteLine("Invalid student number.");
   }
```

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Output (Sample):

