Clint Kline

C++

Week 5

Chapter 10 Programming Exercise 1 :

*// Author: Clint Kline*

*// Filename: Ch10ProgEx1.cpp*

*// Date Created: 11-12-2021*

*// Purpose: homework*

#include <iostream>

#include <string>

using *namespace* std;

*class* studentType

{

*public:*

    string firstName;

    string lastName;

*char* courseGrade;

*int* testScore;

*int* programmingScore;

*double* GPA;

};

*//variables*

studentType student;

studentType newStudent;

string firstName()

{

    cout << "First name: " << endl;

    cout << ">> ";

    cin >> newStudent.firstName;

    return newStudent.firstName;

}

string lastName()

{

    cout << "Last name: " << endl;

    cout << ">> ";

    cin >> newStudent.lastName;

    return newStudent.lastName;

}

*int* testScore()

{

    cout << "Enter test score : " << endl;

    cout << ">> ";

    cin >> newStudent.testScore;

    return newStudent.testScore;

}

*int* programmingScore()

{

    cout << "Enter programming score : " << endl;

    cout << ">> ";

    cin >> newStudent.programmingScore;

    return newStudent.programmingScore;

}

*char* courseGrade(*int* *testScore*, *int* *programmingScore*)

{

*int* score;

    score = (*testScore* + *programmingScore*) / 2;

    if (score >= 90)

        newStudent.courseGrade = 'A';

    else if (score >= 80)

        newStudent.courseGrade = 'B';

    else if (score >= 70)

        newStudent.courseGrade = 'C';

    else if (score >= 60)

        newStudent.courseGrade = 'D';

    else

        newStudent.courseGrade = 'F';

    return newStudent.courseGrade;

}

*double* GPA()

{

    cout << "Enter the students current GPA: " << endl;

    cout << ">> ";

    cin >> newStudent.GPA;

    return newStudent.GPA;

}

*void* print(studentType *student*)

{

    cout << "\n\nStudent Name: " << *student*.firstName << " "

         << *student*.lastName << "\n"

         << "Current Grade: " << *student*.courseGrade << "\n"

         << "Test Score: " << *student*.testScore << "\n"

         << "Programming Score: " << *student*.programmingScore << "\n"

         << "Student's GPA: " << *student*.GPA << endl;

}

*int* main()

{

    firstName();

    lastName();

    testScore();

    programmingScore();

    courseGrade(newStudent.testScore, newStudent.programmingScore);

    GPA();

    print(newStudent);

*// cout << newStudent.firstName << ' ' << newStudent.lastName << endl;*

*// cout << newStudent.courseGrade << ' ' << newStudent.testScore << ' ' << newStudent.GPA << endl;*

    return 0;

}

