**Assignment 3** 

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# Structs, Strings and Pointers

Create a student report card application using structs, pointers, and proper file organization.

### **TASK REQUIREMENTS:**

#### Part 1: Student Record Creation

- Define StudentRecord struct with:
  - StudentID (int)
  - LastName (char[21])
  - FirstName (char[21])
  - Array of 3 CourseRecords (struct with CourseName char[21] and Mark float)
  - AverageMark (float)
- Create function to initialize student records for 3 students via user input

#### Part 2: Average Calculation

Develop function to calculate and set AverageMark for each student

### **Part 3: Report Generation**

- Create function to print formatted report cards showing:
  - Student ID. First/Last Name
  - All courses with marks
  - Calculated average

#### **General Requirements:**

- Organize code in src/ and inc/ folders
- studentRecord.c for operations
- studentRecord.h for prototypes
- Clear comments and consistent formatting

### **SAMPLE OUTPUTS**

## Student input for 1 student:

```
C:\PROG2007\ASSIGN3\cmake-build-debug\ASSIGN3.exe
Please enter the Student ID:
9914725
Please enter the last name for Student #9914725:
White
Please enter the first name for Student #9914725:
Dana
Please enter the course name:
```

```
WIND0444
Please enter the mark for WIND0444:
84
Please enter the course name:
GOLD4350
Please enter the mark for GOLD4350:
98
Please enter the course name:
BNMC0123
Please enter the mark for BNMC0123:
71
Process finished with exit code 0
```

### Report card for 1 student:

REMEMER: your assignment should accept inputs & output report cards for 3 students.

### **Submission Instructions**

### **Video Recording Submission:**

You will demonstrate the completion of this project via a **video screen-capture recording** of you using CLion, GitBash, and viewing your code to show completion of the **Video Submission Checklist**, which is posted on Brightspace. You will post **either your video file or a link to it** (e.g. a Microsoft Stream recording, make sure to give the instructor permissions to watch it), to the Brightspace Assignment 3 Dropbox prior to the deadline. If you are not sure of how best to capture such a video, seek advice from the instructor prior to the deadline.

**NOTE**: MAKE SURE TO SHOW EVERYTHING IN THE VIDEO SUBMISSION CHECKLIST STEP-BY-STEP. YOU WILL NEED AUDIO IN THE VIDEO FOR AT LEAST THE CODE REVIEW PORTION OF THE CHECKLIST