

CS 3035, Fall 2022

In-Lab Exercise 10

Due: September 23, 2022 (11:59 PM midnight)

The following programming exercise has only 1 part which is compulsory for everyone. Please submit a zip/tar compressed file containing the following:

1. Your program for Part 1. Both text file (.txt) or a C program file (.c) are acceptable.
2. A file with screenshot of your output. Please submit this file as a PDF.

An Array of Structs

Look at struct examples 1 and 2 from the class git repository. Like any other struct variable, an array of structs for the struct 'coordinates' can be defined as:

```
struct coordinates coordinatesARRAY[10]
```

This means we now have 10 elements in the array `coordinatesARRAY[10]` and each element is a struct variable accessible as `coordinatesARRAY[index]`.

For example, `coordinatesARRAY[1]` and `coordinatesARRAY[3]` are two distinct struct variable of struct `coordinates`.

Write a program that uses an array of a struct to store 5 student records input by the user of the program. Your struct definition should have the following three variables:

1. Student Name
2. Student Age
3. Student GPA

When all records have been stored, use a for loop to iterate through the stored array and print all student records.

Sample output with 2 records:

Record 1:
Student Name: Thor
Student Age: 1500
Student GPA: 2.0

Record 2:
Student Name: Loki
Student Age: 1070
Student GPA: 4.0