



Homework #3: Structs

Date: 10 Mar 2021

Choose two exercises to solve

Exercise 1: Write the type declaration for a struct data type named Date with the following members: day, month, and year (integer values).

- Define a variable named currentDate of type Date, ask user to enter the current date.
- Define a variable named DateOfBirth of type Date, ask user to enter his date of birth.
- Pass currentDate and DateOfBirth to a function FindAge() that will return a Date struct that contain the age of user of type Date and print age (age of user in years, months and days) in main.

(Note: month = 30 days , year = 12 months)

Example: currentDate: 27/5/2009 DateOfBirth: 30/9/1980 age: 27 / 7 /28

Exercise 2: Declare a struct data type named product that has the following members:

ID (integer), name (string) and price (float).

- Define 3 elements of type product (using array of structs is preferred)
- Ask user to enter information for 3 products and store them in the array
- Find and print the products prices average
- Print names of products that have price less than the prices average using a function **Printproductus()**

Exercise 2: Write the type declaration for a struct data type named Student to contain the following information about a student: Name (string), Id (integer number), marks (5 marks-float- using array)

- Define an array of 6 elements of type Student (using array).
- Ask the user enter the data using a function getdata ()
- Pass the array to a function Print() that will print all array info with GPA for all students (GPA is calculated using sum of all marks divided by 5)