

C Programming

Assignments_7

Eng: fahd badi

Exercise 1

Write a C program to store information (name and marks) for a student using structure and display it.

```
Enter Student Information:  
Enter Student Name: Fahd  
Enter Student Marks: 97  
  
Displaying Student Information:  
Student Name: Fahd  
Student Marks: 97.00
```

Exercise 2

Write C function to add two complex numbers by passing two structure to a function and display the results.

```
For 1st complex number
Enter real and imaginary part respectively:
30
10

For 2nd complex number
Enter real and imaginary part respectively:
15
7
Sum = 45.0 + 17.0i
```

Exercise 3

Write C Function to store information (name, id and grade) for 10 students in array of structures using pointers and another function to print all the structures using pointers.

```
Please Enter Name, Id and Grade for Student Number 1 :Fahd 1111 90
Please Enter Name, Id and Grade for Student Number 2 :Ali 2222 80
Please Enter Name, Id and Grade for Student Number 3 :Fam 3333 95
Please Enter Name, Id and Grade for Student Number 4 :Ahmed 4444 90
Please Enter Name, Id and Grade for Student Number 5 :Essam 5555 87

Student Number 1 Information :
Name : Fahd
Id : 1111
Grade : 90.000000
Student Number 2 Information :
Name : Ali
Id : 2222
Grade : 80.000000
Student Number 3 Information :
Name : Fam
Id : 3333
Grade : 95.000000
Student Number 4 Information :
Name : Ahmed
Id : 4444
Grade : 90.000000
Student Number 5 Information :
Name : Essam
Id : 5555
Grade : 87.000000
```

Exercise 4

Write C Program to create enumerated data type for 12 month display their values in integer constants.

```
Jan = 1  
Feb = 2  
June = 6  
Aug = 8  
Dec = 12
```

Exercise 5

Create Union type called **family_name** it shall have two members **first_name** and **last_name**. The two members are array of characters with same size 30. Try to write string in the first member **first_name** then print the second member **last_name** plus print the size of the union.

```
Last Name : Fahd Badi  
Size of Union Family Name is : 30
```



Eng. Fahd Badi Abdelhameed

