ASSIGNMENT

<u>Chap : 7,Assign: 1</u>

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Instructions:

- **Complete These Codes ASAP!**
- **Ask Group leader For Help If It Is Really Needed.**
- **Complete This Assignment With Your Class Codes.**
- **Submit This Assignment Within 48 Hours!**
- **Take necessary inputs from user!**

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Program 1: Write a C program that defines a structure named Student which has members as {stud_id, stud_name, stud_subjects[5] stud_marks[5], stud_grade }. Accept all values from user for minimum 5 students and print the data.

Program 2: Write a C program to compute basic arithmetic operations onto two objects of structure and print it, members of structure will be {iNumbrOne. iNumberTwo}.

Program 3: Write a C program that defines a structure named Book which has member such as {book_name, book_author, book_publication, book_noOfPages, book_price }, make at least 3 objects and print them.

Program 4: Write a C program that defines a structure named Date which has members such as {date_day, date_month, date_year}. Create two objects of that structure and let user fill the data into, write a function named ComputeDifference() which will calculate difference between the entered dates and print that difference.

Program 5: Write a C program considering any real time scenario that absolutely fits in structure and make 2-4 objects of that structure and print it. {Real Time Example must fit in, it shouldn't be made up one}

Program 6: Write a C program to create a structure named CricketScores which contains the player name, average run-rate, and runs scored in career (should be in range 1000 to 5000). Create at least 4 players record and print the data as per following condition:
{Note: Use Array of Structure to maintain objects}

    (a) print the name of the player who has runs greater than or equal to 4000.
    (b) print the name of the player who has lowest average run rate .
    (c) print the name of the player who is low run scorer among them.

Program 7: Write a C program to create a structure to specify data of customers in bank. The data to be stored is account number, name , balance in account. Create 4 customers record in the bank.

    (d) Print account number and name of each customer with bank balance less than Rs.1500/-
       if less then send message that "your account balance is low".
    (e) Print all data.

Program 8: Write a C program to initialize the structure members and access it using pointers. Implement it in a real time example of structure.
    (a) print the address of pointer and value of it.
    (b) print size of structure, structure pointer.

Program 9: Write a C Program to calculate volume of sphere, volume of cube, volume of cylinder. Write functions for each and access the elements and print the values using structure with functions. {Note Pass Structure Pointer or Structure Objects to the function accord. To your convenience}.

Program 10: Write a C Program to demonstrate use of nested structures in the real time scenario of college and departments. Write meaningful members to the essential structures and essential function to manipulate and access structure data and make a useful and appropriate example out of it.