Assignment # 11

Array of Structures

1. Define a structure named **Student** having members ***name***, ***rollno*** and ***marks in 5 subjects***. WAP to read record of 10 students. Calculate total marks and percentage of each student and print them.

2. Define a structure name **Employee** having its member ***empid***, ***name***, ***address***, and ***salary***. WAP to read record of 10 employees and

   (a) Display record of all employees who live in '***DHARAN***'.
   (b) Display record of all employees who does not live in '***DHARAN***'.
   (c) Display record of all employees whose salary ranges between ***15000*** to ***20000***.
   (d) Display record of all employees after increasing the salaries of all employees by ***10***%.
   (e) Increase the salary by 10% of only those employees who lives in '***BIRATNAGAR***' . Display record of all employees.

3. Define a structure:
   Name(***fname***, ***mname***, ***lastname***)
   Person(***age***, ***contact***, ***address***)
   WAP to nest the structure **Name** within structure **Person** and read the record of 10 persons and display it.

4. Define a structure name **Complex** with its member ***real*** and ***img***. Write a user defined function named ***addComplex()*** to add two given **Complex** numbers. The function should take two **Complex** type arguments and also return C**omplex** type. WAP to implement the UDF in main program.

5. Define a structure name **Time** with its member ***hr, min*** and ***sec***. Write a user defined function named ***timeDiff***() to calculate the difference between two time periods. The function should take two **Time** type arguments and also return **Time** type. WAP to implement the UDF in main program.

6. Define a structure named **Student** having members ***name*** *and* ***rollno***. WAP to read record of 10 students. Sort the students record in ascending order according to their roll numbers.