LAB ASSIGNMENT 3

1. WAP using function to multiply two numbers.

2. WAP using function power (a, b), to calculate the value of a raised to b.

3. WAP using function to swap two numbers.
   - pass by value
   - pass by reference. Analyse both methods.

4. WAP using function using pointers to compute the sum of all elements stored in an array. Also display the base address and address of each element of an array.

5. A record contains name of cricketer, his age, and number of test matches that he has played and the average runs that he has scored in each test match. Create an array of structure to hold records of 20 such cricketer and then write a program to read these records and arrange them in ascending order by average runs.

6. Write a program to read, display, add, and subtract two complex numbers using structure.

7. Write a program, using an array of pointers to a structure, to read and display the data of students.

8. Define a structure date containing three integers— day, month, and year. Write a program using functions to read data, to validate the date entered by the user and then print the date on the screen. For example, if you enter 29,2,2010 then that is an invalid date as 2010 is not a leap year. Similarly 31,6,2007 is invalid as June does not have 31 days.