## **Assignment 7: Function**

Implement the following C programs using user defined functions:

- 1) Calculate  $x^y$  i.e pow(x,y) using recursion.
- 2) Reads an n x n matrix and displays the sum of elements for the main diagonal.
- 3) Insert a word in a string at a position given by user.
- 4) Implement a function named as flip; which will take a number as input and flip its last N digits.

5) For the flip function in Q-5, verify that flip(flip(N,k), k)= N.