LAB Assignment-2

- Q 3. Write a program to perform following operations on stack.
 - a) Create functions for push and pop operations of stack.
 - b) Write a function to convert an infix expression to postfix expression. Pass a one dimensional character array P to the function as input (infix exp) and return character array Q (postfix exp). Test your program for following input

P:
$$(A-(B/C)*D+E)*F\% G$$

c) Write a function for the evaluation of a given postfix expression. For testing pass the postfix expression Q of part b and supply following set of values.

$$A = 90$$
, $B = 50$, $C = 2$, $D = 3$, $E = 1$, $F = 2$, $G = 5$

- Q 4. a) Write program using functions to implement Mergesort.
 - b) Write two different (recursive and non-recursive) functions to implement quick sort.
 - c) Write two different (recursive and non-recursive) functions to solve towers of Hanoi.