Assignment-6 (stacks, queues, sorting, searching): -

- ➢ Write a program to implement stack operations

- ➢ Write a program to evaluate given postfix expression.

- ➢ Write a program to evaluate given pretfix expression.

- ➢ Write a program to evaluate given infix expression to postfix form.

- ➢ Write a program to evaluate given infix expression to prefix form.

- ➢ Write a program to validate given expression w.r.t parenthesis (), {} , []

- ➢ Write a program to implement two stacks in a single array,one can grow from beginning of array and the other can grow from end of the array.

- ➢ Write a program to solve the towers of hanoi problem.

- ➢ Write a program to implement queue operations

- ➢ Write a program to implement circular queue operations

- ➢ Implement the following sorting techniques

  - ➢ Bubble sort

  - ➢ Selection sort

  - ➢ Insertion sort

  - ➢ Quick sort

  - ➢ Merge sort

- ➢ Implement the following searching techniques

  - ➢ Linear search

  - ➢ Binary search