Assignment 7

- 1. WAP to implement a stack which will support three additional operations in addition to push and pop:
- a) peekLowestElement return the lowest element in the stack without removing it from the stack
- b) peekHighestElement return the highest element in the stack without removing it from the stack
- c) peekMiddleElement return the $(size/2+1)^{th}$ lowest element in the stack without removing it from the stack.
 - 2. Write a menu driven program to implement queue operations such as Enqueue, Dequeue, Peek, Display of elements, IsEmpty, IsFull using static array.
 - 3. Write a menu driven program to implement queue operations such as Enqueue, Dequeue, Peek, Display of elements, IsEmpty using linked list.
 - 4. WAP using a function to reverse a queue by using stack.
 - 5. Write a menu driven program to implement circular queue operations such as Enqueue, Dequeue, Peek, Display of elements, IsEmpty, IsFull using static array.
 - 6. Write a menu driven program to implement circular queue operations such as Enqueue, Dequeue, Peek, Display of elements, IsEmpty using linked list.