Stacks sample Q1

```
//Q1
StackX stack1 = new StackX(3);

        stack1.push(5.5);
        System.out.println("Pushed : "+stack1.peek());


        stack1.push(8.8);
        System.out.println("Pushed : "+stack1.peek());


        stack1.push(2.2);
        System.out.println("Pushed : "+stack1.peek());


//        while(!stack1.isEmpty())
//        {
//                System.out.println("Popped : "+stack1.pop());
//        }
//
        System.out.println("Popped : "+stack1.pop());
        System.out.println("Popped : "+stack1.pop());
        System.out.println("Popped : "+stack1.pop());
```

Q2

```java
StackX stack1 = new StackX(2);

        Scanner scan = new Scanner (System.in);

        for (int i = 1 ; i < 4 ; i ++)
        {
                System.out.print("Enter number "+i+" : ");
                Double val1 = scan.nextDouble();

                stack1.push(val1);
                System.out.println("Pushed : "+stack1.peek());
        }
//
//        System.out.println("Pushed : "+stack1.peek());
//
//        stack1.push(3.3);
//        System.out.println("Pushed : "+stack1.peek());
//
//        stack1.push(2.2);
//
        System.out.println("Top element : "+stack1.peek());
```

```
//Queues - Q1


            QueueX Q1 = new QueueX(3);


            Double v1 = 3.1;

            Double v2 = 5.7;

            Double v3 = 9.8;


            Q1.insert(v1);

            System.out.println("Inserted: "+Q1.peekFront());


            Q1.insert(v2);

            System.out.println("Inserted: "+v2);


            Q1.insert(v3);

            System.out.println("Inserted: "+v3);



            while(!Q1.isEmpty())

            {

                    System.out.println("Removed: "+Q1.remove());

            }

//          System.out.println("Removed: "+Q1.remove());

//          System.out.println("Removed: "+Q1.remove());

//          System.out.println("Removed: "+Q1.remove());
```

```java
//Queues - Q2

        QueueX Q1 = new QueueX(3);


        Double v1 = 2.3;

        Double v2 = 4.7;

        Double v3 = 6.1;


        Double v4 = 9.9;

        Double v5 = 1.5;


        Q1.insert(v1);

        System.out.println("Inserted: "+Q1.peekFront());


        Q1.insert(v2);

        System.out.println("Inserted: "+v2);


        Q1.insert(v3);

        System.out.println("Inserted: "+v3);


        Q1.insert(v4);


        System.out.println("Removed: "+Q1.remove());

        System.out.println("Removed: "+Q1.remove());


        Q1.insert(v4);

        System.out.println("Inserted: "+v4);
```

```java
Q1.insert(v5);

System.out.println("Inserted: "+v5);


System.out.println("Front element is: "+Q1.peekFront());
```

```java
//Linked List Q1

LinkedList Linkobj = new LinkedList();

        Linkobj.insertFirst(7.2);

        System.out.println("Inserted: "+Linkobj.peekFirst());


        System.out.print("List:");

        Linkobj.displayList();


        Linkobj.insertFirst(5.5);

        System.out.println("Inserted: "+Linkobj.peekFirst());

        System.out.print("List:");

        Linkobj.displayList();


        Linkobj.insertFirst(9.8);

        System.out.println("Inserted: "+Linkobj.peekFirst());


        System.out.print("List:");

        Linkobj.displayList();



        System.out.println("deleted: "+Linkobj.deleteFirst());

        System.out.print("List:");

        Linkobj.displayList();


        System.out.println("deleted: "+Linkobj.deleteFirst());

        System.out.print("List:");
```

```
Linkobj.displayList();
```