Logic_test

Day 4:

Prn:046

SET 1:

Q1)

```
import java.util.*;
public class Main
{
   static void getUnique(int arr[]){
      int n=arr.length;
      int min=Integer.MIN_VALUE;
      int previous=0;

      for(int i=0;i<n;i++){
         if(arr[i]!=previous){
            System.out.print(arr[i]+" ");
            previous=arr[i];
         }
      }


   }
         public static void main(String[] args) {
                  Scanner sc=new Scanner(System.in);
                  System.out.println("enter the size of array");
                  int n=sc.nextInt();
                  int arr[]=new int[n];
```

```
            System.out.println("enter the numbers in an array:");

            for(int i=0;i<n;i++){
              arr[i]=sc.nextInt();
            }

            Arrays.sort(arr);
            getUnique(arr);
          }
}
```

Q2)

```
import java.util.*;

public class Main
{
   static int maxSumSubarray(int arr[],int k){
      int n=arr.length;
      int max_sum=0;
      for(int i=0;i<k;i++){
         max_sum+=arr[i];
      }
      //
      int window_sum=max_sum;
      for(int i=k;i<n;i++){
         window_sum+=arr[i]-arr[i-k];
         max_sum=Math.max(window_sum,max_sum);
      }
```

```
        return max_sum;
    }
        public static void main(String[] args) {
            Scanner sc=new Scanner(System.in);
            System.out.println("enter the size of the array:");
            int n=sc.nextInt();
            System.out.println("enter the size of window");
            int k=sc.nextInt();
            System.out.println("enter the elements in an array:");

            int arr[]=new int[n];
            for(int i=0;i<n;i++){
                arr[i]=sc.nextInt();
            }

            int result=maxSumSubarray(arr,k);
            System.out.println("maximum sum="+result);
        }
}
```