FULL STACK DEVELOPMENT WORKSHEET – 2

1- Write a Java Program to Count the Number of Digits in a Number

```java
A. import java.util.*;

public class countthenumber{
    static int countDigit(long n)
{
    return (int)Math.floor(Math.log10(n) + 1);
}
public static void main(String[] args)
{
    long n = 569487124;
    System.out.println("Number of Digit : " +countDigit(n));
}

}
```

2- Write a Java Code to Count Vowels and Consonants in a String.

```java
import java.util.*;
public class CountVowelConsonant {
    public static void main(String[] args) {
        int vCount = 0, cCount = 0;
        String str = "This is a really simple sentence";
        str = str.toLowerCase();
        for(int i = 0; i < str.length(); i++) {
            if(str.charAt(i) == 'a' || str.charAt(i) == 'e' || str.charAt(i)
== 'i' || str.charAt(i) == 'o' || str.charAt(i) == 'u') {
                vCount++;
            }
            else if(str.charAt(i) >= 'a' && str.charAt(i)<='z') {
                cCount++;
            }
        }
        System.out.println("Number of vowels: " + vCount);
        System.out.println("Number of consonants: " + cCount);
    }
}
\
```

4. Write a Java program to check if a vowel is present in a string

```java
import java.util.*;
public class Vowel {
    public static void main(String[] args)
    {
        String str = "Hello WOrld";
        str = str.toLowerCase();
        int count = 0;
        for (int i = 0; i < str.length(); i++) {
            if (str.charAt(i) == 'a'
                || str.charAt(i) == 'e'
                || str.charAt(i) == 'i'
                || str.charAt(i) == 'o'
                || str.charAt(i) == 'u') {

                count++;
            }
        }
        System.out.println(
            "Total no of vowels in string are: " + count);
    }
}
```

5-Write a program to remove duplicate elements from an array in Java.4

```java
import java.util.*;
public class RemoveDuplicateInArray{
    public static int removeDuplicateElements(int arr[], int n){
        if (n==0 || n==1){
            return n;
        }
        int[] temp = new int[n];
        int j = 0;
        for (int i=0; i<n-1; i++){
            if (arr[i] != arr[i+1]){
                temp[j++] = arr[i];
            }
        }
        temp[j++] = arr[n-1];

        for (int i=0; i<j; i++){
            arr[i] = temp[i];
        }
        return j;
    }
}
```

```java
    public static void main (String[] args) {
        int arr[] = {10,20,20,30,30,40,50,50};
        int length = arr.length;
        length = removeDuplicateElements(arr, length);

        for (int i=0; i<length; i++)
            System.out.print(arr[i]+" ");
    }
}
```