**DAA-Lab**

**LAB - 1**

LQ1. Aim of the experiment : To store random numbers into an array of n integers and then find out the smallest and largest number stored in it. n is the user input. Input : Random Numbers Output : smallest and largest number Run 1 : Enter the number of elements : 10 The random array elements are as follows : 51 69 30 11 71 95 87 13 Among the random elements, Minimum= 11, Maximum=95

CASE-1

**INPUT:**

Enter the number of integers: 5

**OUTPUT:**

Random Numbers: [46, 74, 92, 18, 56]

Smallest Number: 18

Largest Number: 92

CASE-2

**INPUT**

Enter the number of integers: 8

**OUTPUT:**

Random Numbers: [37, 89, 12, 66, 45, 23, 78, 54]

Smallest Number: 12

Largest Number: 89

CASE-3

**INPUT:**

Enter the number of integers: 3

**OUTPUT:**

Random Numbers: [5, 17, 29]

Smallest Number: 5

Largest Number: 29

LQ 2. Aim of the experiment : To rearrange the elements of an array of n integers such that all even numbers are followed by all odd numbers. RUN-1 : Input : Enter the size of array : 8 Enter the elements : 86 54 31 93 57 78 40 59 86 Output : 86 54 40 78 57 31 93 59

CASE-1

**INPUT:**

Enter the size of array : 8

Enter the elements : 86 54 31 93 57 78 40 59 86

**OUTPUT:**

Output : 86 54 40 78 57 31 93 59

CASE-2

**INPUT**

Enter the size of array: 5

Enter the elements: 25 10 45 72 33

**OUTPUT:**

Output: 72 10 45 33 25

CASE-3

**INPUT:**

Enter the size of array: 6

Enter the elements: 16 29 42 8 57 34

**OUTPUT:**

Output: 42 34 16 8 29 57

LQ 3. Aim of the experiment : Write a program to store random numbers or increasing or decreasing into an array of n integers, where the array must contains some duplicates. Do the following : a) Find out the total number of duplicate elements. b) Find out the most repeating element in the array.

**INPUT:**

Enter the value of n greater than 10 for must having duplicate elements: 14

The random array elements are as follows: 26 14 8 26 9 14 18 26 3 18 9 8 3 14

**OUTPUT:**

The total number of duplicate elements are 7.

The most frequent element is 14.

**NAME**

**MOHAMMAD RUMAN**

**ROLL NO - 21052675**