### **Evaluation Test No 1**

Date: 03.10.2022 Time: 2.30 hr

1) Check if an array is formed by consecutive integers

**Input** {-1,5,4,2,0,3,1}

**Output** The array contains consecutive integers from -1 to 5.

**Input** {4,2,4,3,1}

Output The array does not contain consecutive integers as element 4 is repeated.

2) Given the number of Covid Cases Admitted in the hospital from Day 1 to Day N. Hospital takes K days to treat a patient, cure them completely and discharge. Find the Maximum number of cases treated by the hospital in a single day.

**Input:** Cases ={1, 2, 3, 1, 4, 5, 2, 3, 6}

K = 3 (i.e the hospital takes 3 days to treat a patient)

Output: 11. Explanation:

On Day 1=> 1 Patient

On Day 2=> 3 Patients

On Day 3=> 6 Patients

On Day 4=> 6 Patients

On Day 5=> 8 Patients

On Day 6=> 10 Patients

On Day 7=> 11 Patients

On Day 8=> 10 Patients

On Day 9=> 11 Patients

On Day 10=> 9 Patients

On Day 11=> 6 Patients

On Day 12=> The Hospital will be Corona Free.

So the Hospital has treated 11 Patients on Day 7 & Day 9.

3) Given an integer array. Find a sub array having the given sum in the given array

**Input:** A[] ={2, 6, 0, 9, 7, 3, 1, 4, 1, 10} target = 15

**Output:** {6, 0, 9}

**Input:** A[] ={0, 5, -7, 1, -4, 7, 6, 1, 4, 1, 10} target = -3

**Output:** {1, -4}

4) Write a Java program to create and display unique three-digit number using 1, 2, 3, 4. Also count how many three-digit numbers are there.

# **Expected Output**

123

124

...

431

432

# Total number of the three-digit-number is 24

5) Print the below pattern

## Input:

4

### **Output:**

1 2\*3 4\*5\*6 7\*8\*9\*10 7\*8\*9\*10

4\*5\*6

2\*3 1

6) Write a program that will take one string as input. The program will then remove vowels a, e, i, o, and u (in lower or upper case) from the string. If there are two or more vowels that occur together then the program shall ignore all of those vowels.

### Example 1

Input: Cat Output: Ct

# Example 2

Input: Compuuter Output: Cmpuutr