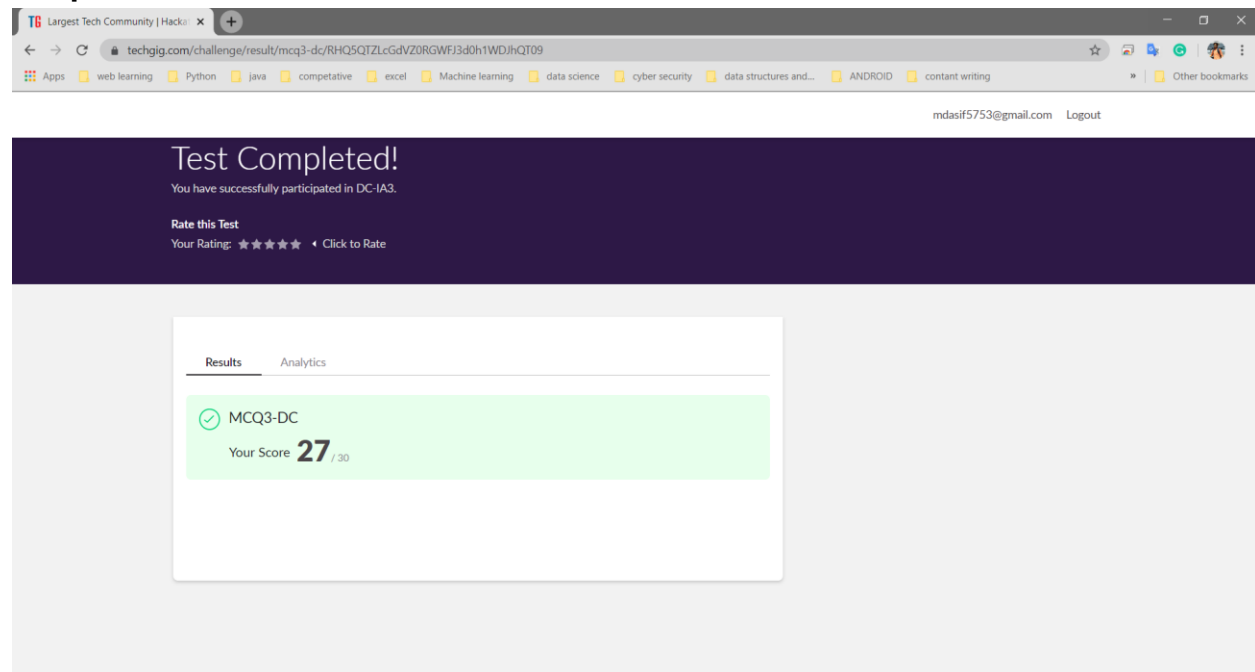


DAILY ONLINE ACTIVITIES SUMMARY

Date:	06/06/2020	Name:	M MAHAMMAD ASIF
Sem & Sec	4th Sem & 'A' Sec	USN:	4AL18CS045
Online Test Summary			
Subject	1.Data Communication (18CS46)		
Max. Marks	30	Score	27
Certification Course Summary			
Course	The Complete Android App Development Masterclass: Build Apps		
Certificate Provider	Udemy	Duration	29 Hours
Coding Challenges			
Problem Statement: 1. Given an array A of size N containing 0s, 1s, and 2s; you need to sort the array in ascending order. 2. Java Program to find the second-highest number in an array.			
Status: Completed			
Uploaded the report in Github		Yes	
If yes Repository name		https://github.com/alvas-education-foundation/M_MAHAMMAD_ASIF	
Uploaded the report in slack		Yes	

Online Test Details: The Data Communication (18CS46) 3rd Internal Assessment was conducted on 5th Module. In that I had Scored 27 marks out of 30.

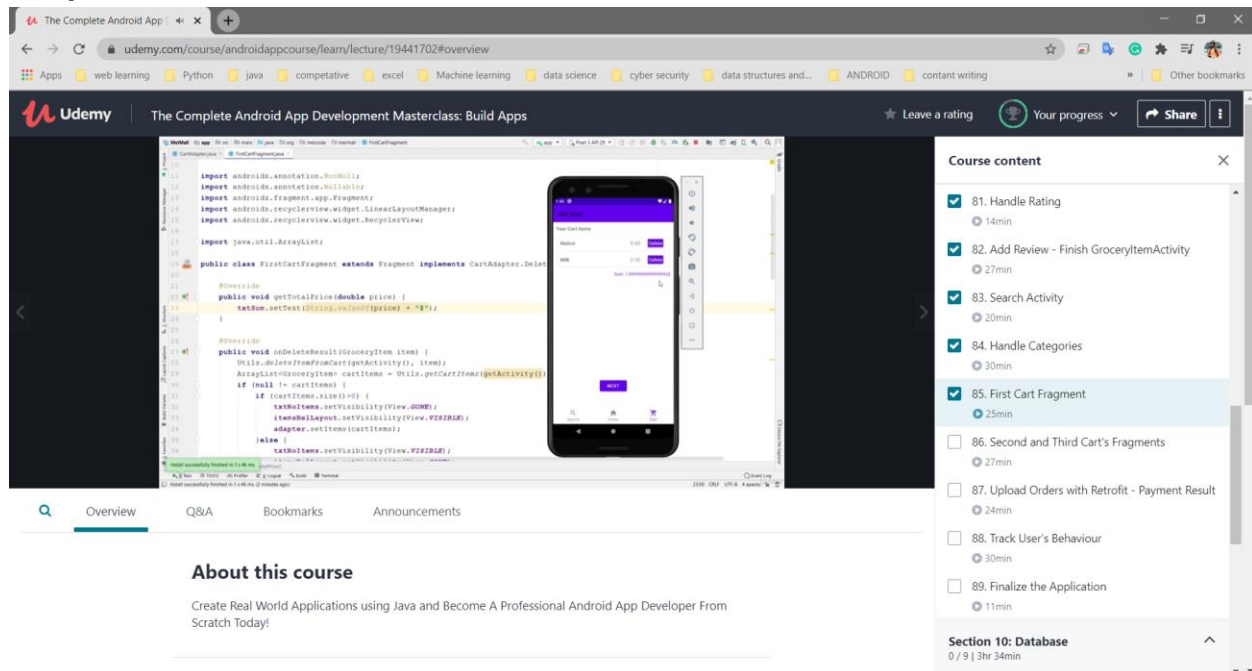
Snapshot:



Certification Course Details: I have continued the course that is “Complete Android App Development Masterclass: Build Apps”, which is about 29 hours of Duration. In that, I had completed Next part of yesterday’s topic, which was about more than 1 hour. Parallel to that whatever learns in course I’m practicing in Android Studio. And overall it takes 3-5 hours of duration to complete that day’s certification course concepts.

In additional to this daily I’m doing some other online courses aswell, as a proof I uploaded the Certificates in my other repository named “Completed course certificates.”

Snapshot:



Above is the snapshot of Android development course.

Coding Challenges Details: The Two problems I have solved by Understanding the Concepts through Online and updated the same in Github Repository. The two problem statements were:

1. Given an array A of size N containing 0s, 1s, and 2s; you need to sort the array in ascending order.

Input:

The first line contains an integer 'T' denoting the total number of test cases. Then T test cases follow. Each test cases contains two lines of input. The first line denotes the size of the array N. The second lines contains the elements of the array A separated by spaces.

Output:

For each test case, print the sorted array.

Constraints:

$1 \leq T \leq 500$

$1 \leq N \leq 106$

$0 \leq A_i \leq 2$

Example:

Input :

2

5

0 2 1 2 0

3

0 1 0

Output:

0 0 1 2 2

0 0 1

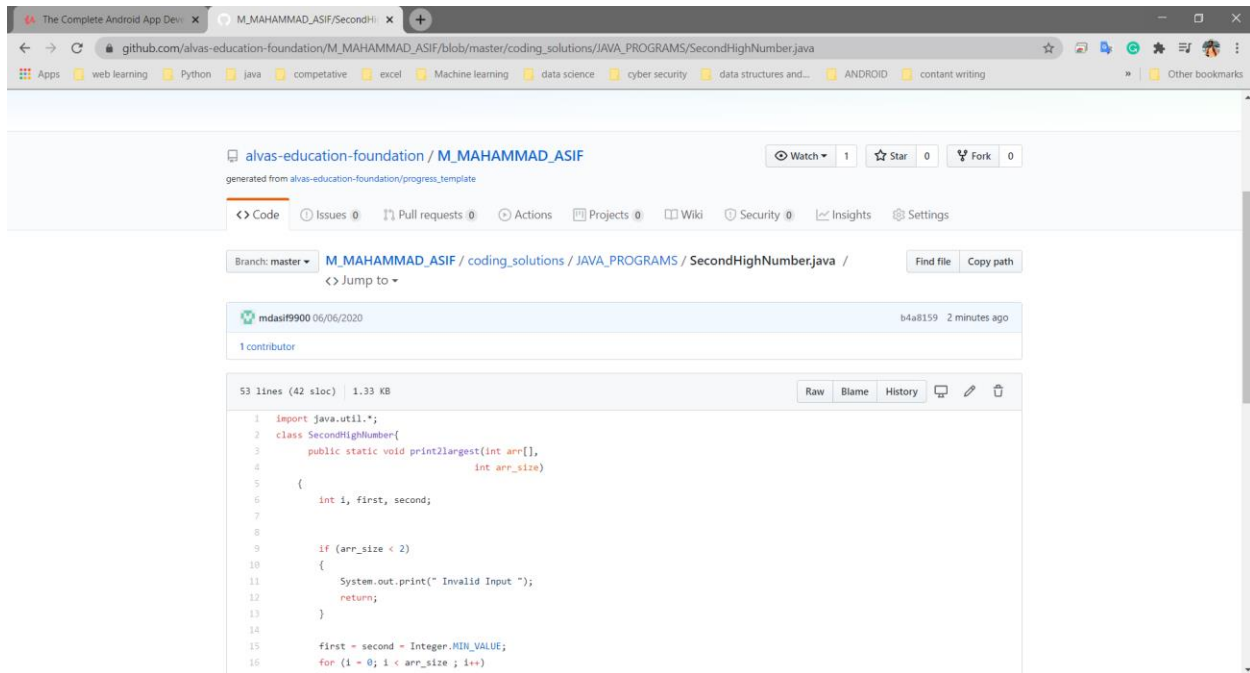
Snapshot:

The screenshot shows a web browser displaying a GitHub repository page. The browser's address bar shows the URL: `github.com/alvas-education-foundation/M_MAHAMMAD_ASIF/blob/master/coding_solutions/JAVA_PROGRAMS/countz_os_ones_twos.java`. The repository name is `alvas-education-foundation / M_MAHAMMAD_ASIF`. The file path is `coding_solutions / JAVA_PROGRAMS / countz_os_ones_twos.java`. The file is 56 lines long, 1.33 KB, and was last committed by `mdasi9900` on 06/06/2020. The code is a Java program that implements a sorting algorithm (likely Quick Sort) and counts the number of 1s in the binary representation of each element in the array. The code is as follows:

```
1 import java.util.*;
2 class countz_os_ones_twos{
3     static void sort012(int a[], int arr_size)
4     {
5         int lo = 0;
6         int hi = arr_size - 1;
7         int mid = 0, temp = 0;
8         while (mid <= hi) {
9             switch (a[mid]) {
10                 case 0: {
11                     temp = a[lo];
12                     a[lo] = a[mid];
13                     a[mid] = temp;
14                     lo++;
15                     mid++;
16                     break;
17                 }
18                 case 1: {
19                     temp = a[mid];
20                     a[mid] = a[hi];
21                     a[hi] = temp;
22                     hi--;
23                     break;
24                 }
25                 case 2: {
26                     temp = a[mid];
27                     a[mid] = a[hi];
28                     a[hi] = temp;
29                     hi--;
30                     break;
31                 }
32             }
33         }
34     }
35 }
```

2. Java Program to find the second-highest number in an array.

Snapshot:



The screenshot shows a web browser displaying a GitHub repository page for 'alvas-education-foundation / M_MAHAMMAD_ASIF'. The repository is generated from 'alvas-education-foundation/progress_template'. The file path is 'coding_solutions / JAVA_PROGRAMS / SecondHighNumber.java'. The file is 53 lines long (42 sloc) and 1.33 KB. The code is as follows:

```
1 import java.util.*;
2 class SecondHighNumber{
3     public static void print2largest(int arr[],
4                                     int arr_size)
5     {
6         int i, first, second;
7
8         if (arr_size < 2)
9         {
10             System.out.print(" Invalid Input ");
11             return;
12         }
13
14         first = second = Integer.MIN_VALUE;
15         for (i = 0; i < arr_size ; i++)
16             ...
```

Above is the java implementation of finding second highest number in an given array.