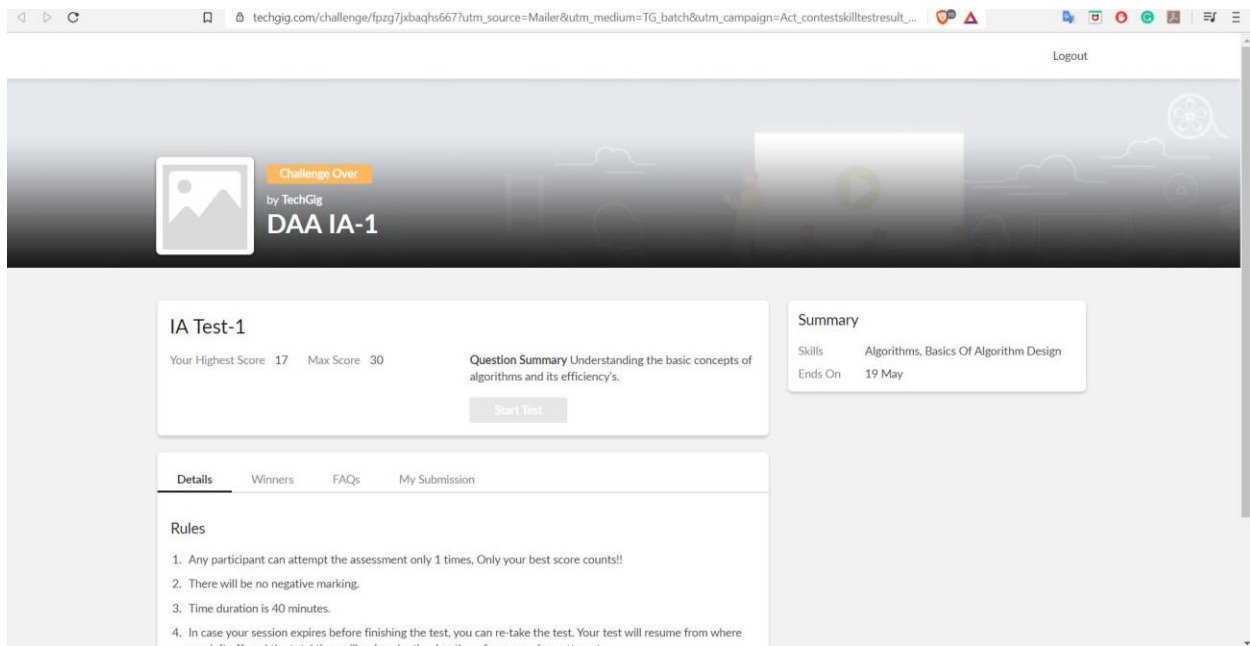


DAILY ONLINE ACTIVITIES SUMMARY

Date:	19/05/2020	Name:	Pramod R
Sem & Sec	4 th Sem B Section	USN:	4AL18CS059
Online Test Summary			
Subject	Design Analysis and Algorithm		
Max. Marks	30	Score	17
Certification Course Summary			
Course	Blockchain Basics		
Certificate Provider	Coursera	Duration	4 Weeks
Coding Challenges			
<p>Problem Statement: Q.A user will input two strings, and we find if one of the strings is a sub sequence of the other. Program prints “yes” if either the first string is a sub sequence of the second string or the second string is a sub sequence of the first string. Assume that, the length of the first string is smaller than or equal to the length of the second string. An expected output of the program: Input the first string tree Input the second string Computer science is awesome YES Ans: ?</p>			
Status: ^{ASSU} Completed			
Uploaded the report in Github		YES	
If yes Repository name		https://github.com/pramod19ananya/QuarantineCoding	

Uploaded the report in slack	YES
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Online Test Details: (Attach the snapshot and briefly write the report for the same)



Design and Analysis of Algorithm Internals was conducted. A total of 25 questions were there in which 20 of them were Multiple Choice Questions and 5 of them were problem based questions.

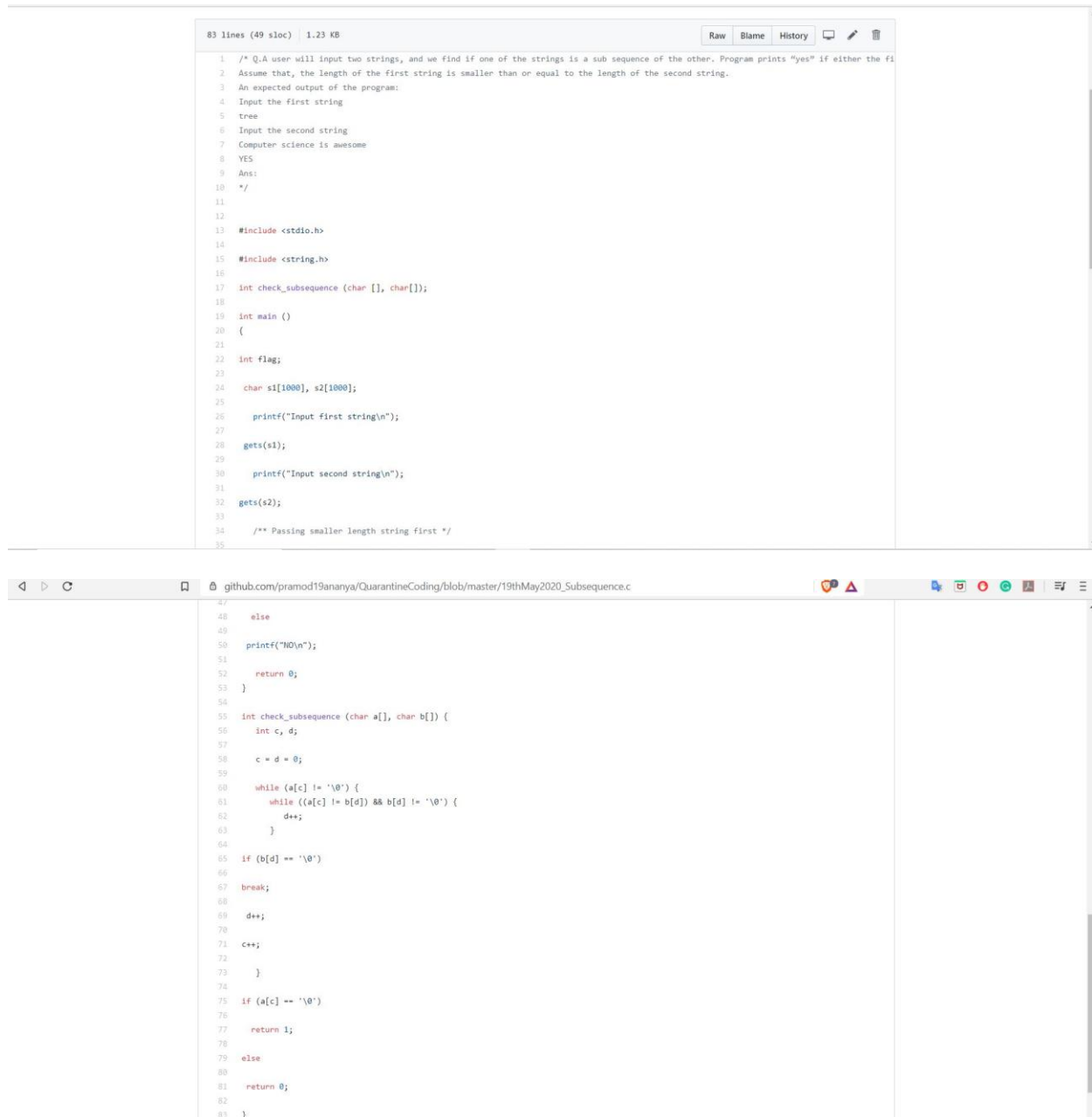
The above snapshot is the result sheet which was mailed to us by the Techgig team.

Certification Course Details: (Attach the snapshot and briefly write the report for the same)

The screenshot displays the Coursera interface for the 'Blockchain Basics' course. The top navigation bar includes the Coursera logo, an 'Explore' button, a search bar with the placeholder 'What do you want to learn?', a notification bell, and a user profile for 'Pramod R'. The breadcrumb trail indicates the current location: 'Blockchain Basics > Week 1 > Basic Operations'. The left sidebar lists the course structure, including 'Blockchain Structure' (Video: 5 min, Reading: 12 min, Practice Quiz: 4 questions), 'Basic Operations' (Video: 4 min, Reading: 10 min, Practice Quiz: 3 questions), and 'Beyond Bitcoin'. The main content area is titled 'Basic Operations' and features a video player with a dark blue background. The video content includes a graphic of crossed mining tools (a pickaxe and a shovel) and a list of four bullet points: 'Verify transactions', 'Broadcast transactions', 'Compete to create a block', and 'Reach consensus by validating block'. A subtitle at the bottom of the video reads 'work on reaching consensus by validating the block,'. Below the video player are buttons for 'Save Note', 'Discuss', and 'Download', along with social sharing icons.

The course I have chosen during the lockdown period is Blockchain basics. Since I had previously knew few topics about bitcoin I am continuing this course. Since Blockchain is gaining a lot interest in the IT Sector I have preferred to choose this course.

Coding Challenges Details: (Attach the snapshot and briefly write the report for the same)



The image displays two screenshots of C code. The top screenshot shows the beginning of a program, including comments and the start of the main function. The bottom screenshot shows the implementation of the `check_subsequence` function, which uses two pointers to traverse the strings and check for a subsequence.

```
83 lines (49 sloc) | 1.23 KB
1  /* Q.A user will input two strings, and we find if one of the strings is a sub sequence of the other. Program prints "yes" if either the fi
2  Assume that, the length of the first string is smaller than or equal to the length of the second string.
3  An expected output of the program:
4  Input the first string
5  tree
6  Input the second string
7  Computer science is awesome
8  YES
9  Ans:
10 */
11
12
13 #include <stdio.h>
14
15 #include <string.h>
16
17 int check_subsequence (char [], char[]);
18
19 int main ()
20 {
21
22     int flag;
23
24     char s1[1000], s2[1000];
25
26     printf("Input first string\n");
27
28     gets(s1);
29
30     printf("Input second string\n");
31
32     gets(s2);
33
34     /** Passing smaller length string first */
35
36
37     else
38
39     printf("NO\n");
40
41     return 0;
42 }
43
44 int check_subsequence (char a[], char b[]) {
45     int c, d;
46
47     c = d = 0;
48
49     while (a[c] != '\0') {
50         while ((a[c] != b[d]) && b[d] != '\0') {
51             d++;
52         }
53
54         if (b[d] == '\0')
55             break;
56
57         d++;
58
59         c++;
60     }
61
62     if (a[c] == '\0')
63         return 1;
64     else
65         return 0;
66 }
67
```

The question I took to code is:

Problem Statement: Q.A user will input two strings, and we find if one of the strings is a sub sequence of the other. Program prints “yes” if either the first string is a sub sequence of the second string or the second string is a sub sequence of the first string.

Assume that, the length of the first string is smaller than or equal to the length of the second string.

An expected output of the program:

Input the first string

tree

Input the second string

Computer science is awesome

YES

Ans: ?

Code: The above snapshot is the code which I have uploaded in my Github repository.