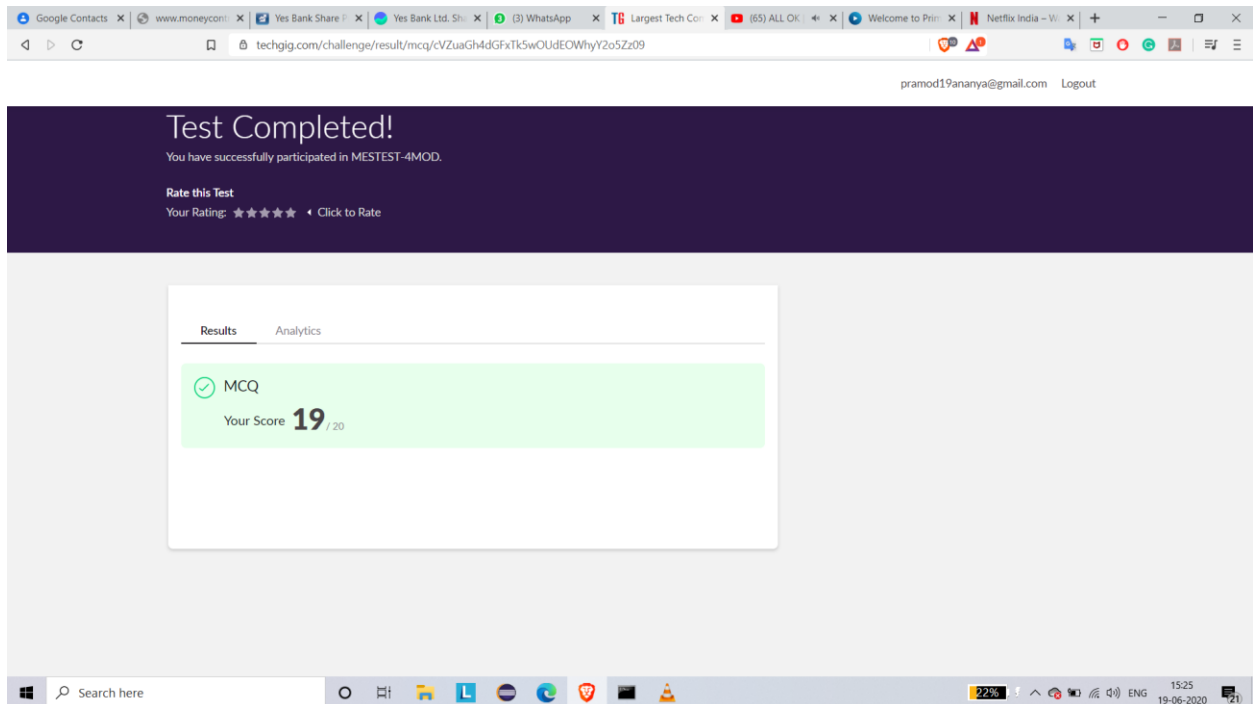


## **DAILY ONLINE ACTIVITIES SUMMARY**

Date:	19/06/2020	Name:	Pramod R
Sem & Sec	4 <sup>th</sup> sem B section	USN:	4AL18CS059
<b>Online Test Summary</b>			
Subject	Microcontroller and Embedded systems		
Max. Marks	20	Score	19
<b>Certification Course Summary</b>			
Course	Java Programming for Complete Beginners		
Certificate Provider	Udemy	Duration	1 Hour
<b>Coding Challenges</b>			
Problem Statement: Write a C program to count total set bits in all numbers from 1 to n.			
Status: Completed			
Uploaded the report in Github		YES	
If yes Repository name		<a href="https://github.com/alvas-education-foundation/Pramod_R">https://github.com/alvas-education-foundation/Pramod_R</a>	
Uploaded the report in slack		YES	

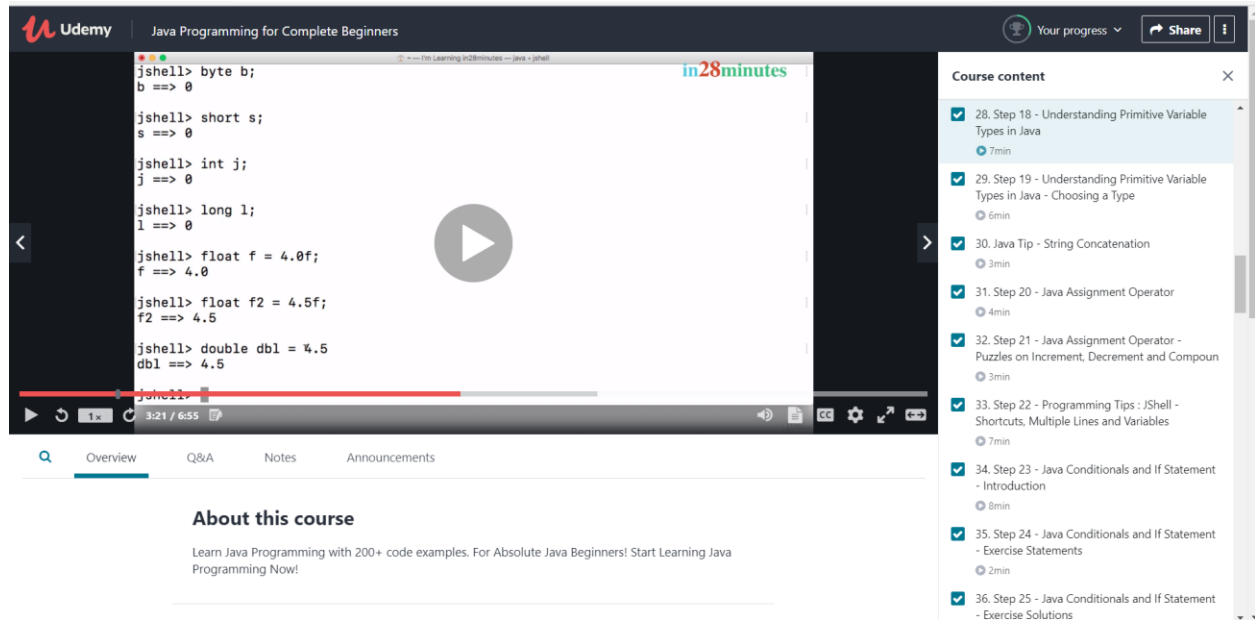
## Online Test Details: (Attach the snapshot and briefly write the report for the same)



**Microcontroller and Embedded Systems** Internals was conducted. A total of 20 questions were there in which all the 20 of them were Multiple Choice 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 Udemy interface for the course "Java Programming for Complete Beginners". The video player shows a terminal window with the following code:

```
jschell> byte b;  
b ==> 0  
  
jschell> short s;  
s ==> 0  
  
jschell> int j;  
j ==> 0  
  
jschell> long l;  
l ==> 0  
  
jschell> float f = 4.0f;  
f ==> 4.0  
  
jschell> float f2 = 4.5f;  
f2 ==> 4.5  
  
jschell> double dbl = 4.5  
dbl ==> 4.5
```

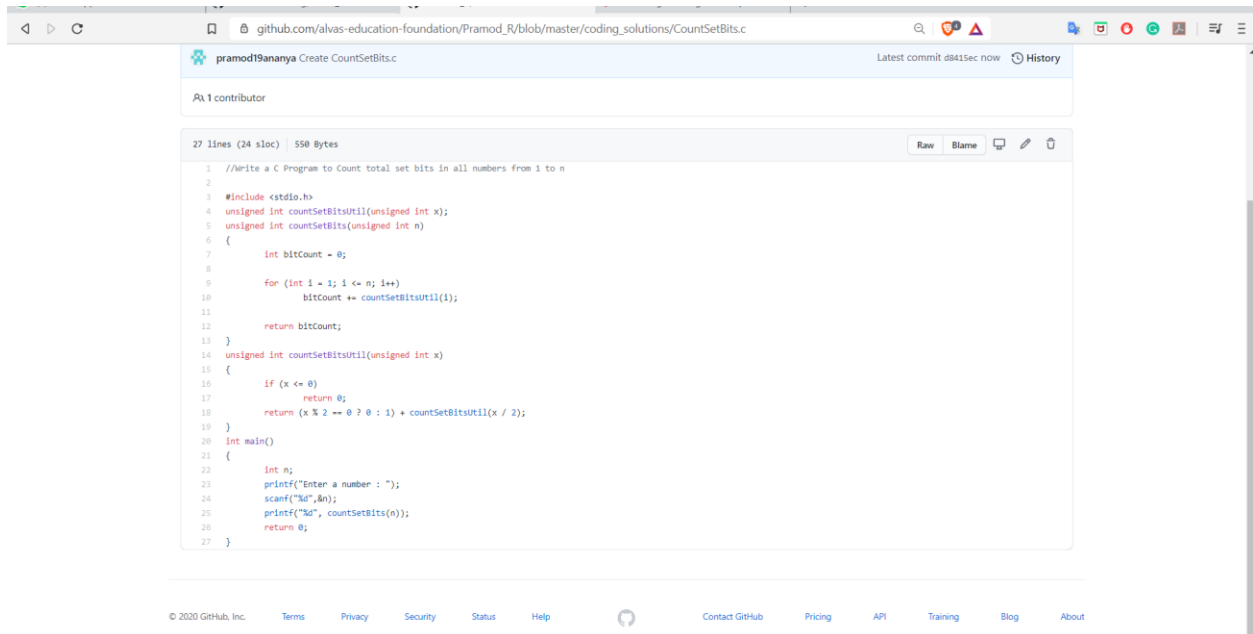
The video player has a progress bar at 3:21 / 6:55. The course content list on the right includes:

- 28. Step 18 - Understanding Primitive Variable Types in Java (7min)
- 29. Step 19 - Understanding Primitive Variable Types in Java - Choosing a Type (6min)
- 30. Java Tip - String Concatenation (3min)
- 31. Step 20 - Java Assignment Operator (4min)
- 32. Step 21 - Java Assignment Operator - Puzzles on Increment, Decrement and Compound (3min)
- 33. Step 22 - Programming Tips : JShell - Shortcuts, Multiple Lines and Variables (7min)
- 34. Step 23 - Java Conditionals and If Statement - Introduction (8min)
- 35. Step 24 - Java Conditionals and If Statement - Exercise Statements (2min)
- 36. Step 25 - Java Conditionals and If Statement - Exercise Solutions

**About this course**  
Learn Java Programming with 200+ code examples. For Absolute Java Beginners! Start Learning Java Programming Now!

The course I have chosen during the lockdown period is **Java Programming for Complete Beginners**. Since I had previously knew few topics about Java I am continuing this course. Since Java is used in major application development, I have chosen this course.

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



The screenshot shows a GitHub repository page for a C program named 'CountSetBits.c'. The repository is owned by 'pramod19ananya' and has a latest commit 'd8415ec' from 'now'. The file is 27 lines long, 24 slots, and 550 bytes. The code is as follows:

```
1 //Write a C Program to Count total set bits in all numbers from 1 to n
2
3 #include <stdio.h>
4 unsigned int countSetBitsUtil(unsigned int x);
5 unsigned int countSetBits(unsigned int n)
6 {
7     int bitCount = 0;
8
9     for (int i = 1; i <= n; i++)
10         bitCount += countSetBitsUtil(i);
11
12     return bitCount;
13 }
14 unsigned int countSetBitsUtil(unsigned int x)
15 {
16     if (x <= 0)
17         return 0;
18     return (x % 2 == 0 ? 0 : 1) + countSetBitsUtil(x / 2);
19 }
20 int main()
21 {
22     int n;
23     printf("Enter a number : ");
24     scanf("%d", &n);
25     printf("%d", countSetBits(n));
26     return 0;
27 }
```

**The question I took to code is:**

Write a C program to count total set bits in all numbers from 1 to n.

**Solution:** The above snapshot is the code which I have uploaded in my Github repository