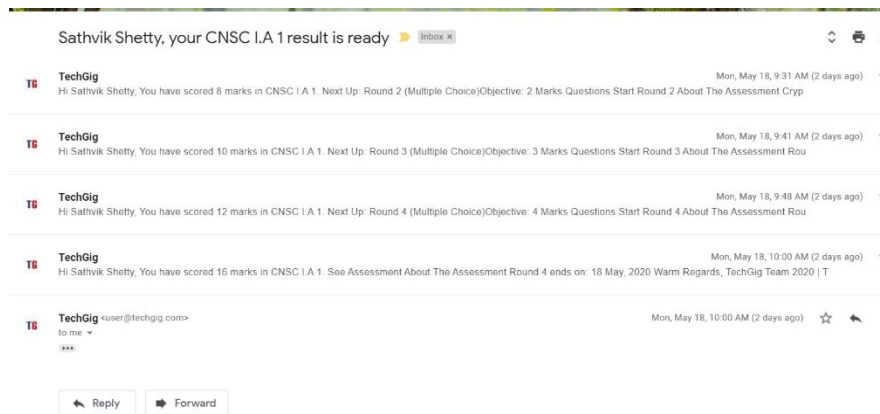


DAILY ONLINE ACTIVITIES SUMMARY

Date:	18-05-2020	Name:	Sathvik R Shetty
Sem & Sec	VI B	USN:	4AL17CS089
Online Test Summary			
Subject	CNSC IA Test		
Max. Marks	60	Score	46
Certification Course Summary			
Course	Web Development with Python and Javascript		
Certificate Provider	Harvard University	Duration	12weeks
Coding Challenges			
Problem Statement: 1. Using methods charAt() & length() of String class, write a program to print the frequency of each character in a string. 2. Write down a java program to print even and odd numbers series respectively from two threads: t1 and t2 synchronizing on a shared object Let t1 print message “ping — >” and t2 print message “,—pong”.			
Status:Completed			
Uploaded the report in Github		Yes	
If yes Repository name		https://github.com/sathvikshetty22/Online-Coding	
Uploaded the report in slack		Yes	

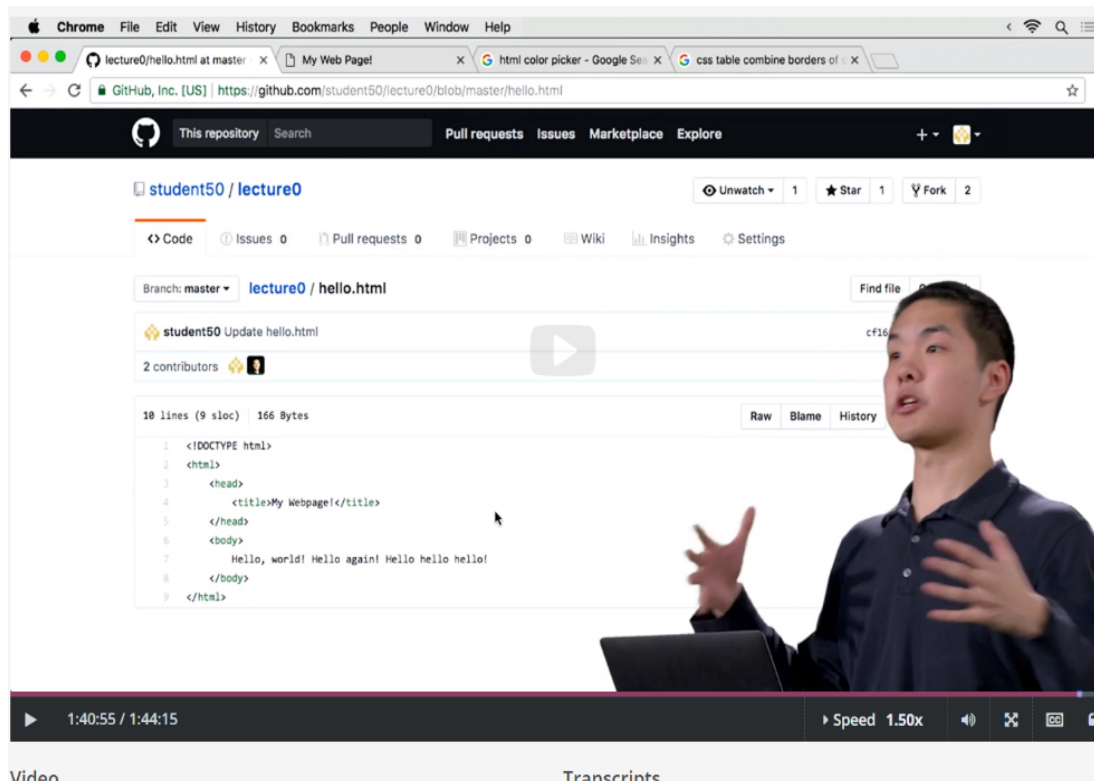
Online Test Details



Online Certification Details

Lesson-1

- Learning about Git



Coding Challenge Details

1. Using methods `charAt()` & `length()` of String class, write a program to print the frequency of each character in a string.

```
1 import java.util.*;
2
3 public class Main
4 {
5     public static void main(String args[])
6     {
7         int i;
8         String s;
9         int c[] = new int[256];
10        Scanner sc = new Scanner(System.in);
11        System.out.print("Enter a String : ");
12        s=sc.nextLine();
13        for (i = 0; i < s.length(); i++)
14            c[(int) s.charAt(i)]++;
15        for (i = 0; i < 256; i++) {
16            if (c[i] != 0) {
17                System.out.println((char)i + ": " + c[i]);
18            }
19        }
20    }
21 }
```

Terminal

```
Enter a String : sathvik
a:: 1
h:: 1
i:: 1
k:: 1
s:: 1
t:: 1
v:: 1
Process finished.
```

2. Write down a java program to print even and odd numbers series respectively from two threads: t1 and t2 synchronizing on a shared object
Let t1 print message “ping —>” and t2 print message “,—pong”.

```
1 class OddThread extends Thread
2 {
3     int limit;
4     sharedPrinter printer;
5     public OddThread(int limit, sharedPrinter printer)
6     {
7         this.limit = limit;
8         this.printer = printer;
9     }
10    @Override
11    public void run()
12    {
13        int oddNumber = 1;
14        while (oddNumber <= limit)
15        {
16            printer.printOdd(oddNumber);
17            oddNumber = oddNumber + 2;
18        }
19    }
20 }
21
22 class EvenThread extends Thread
23 {
24     int limit;
25     sharedPrinter printer;
26     public EvenThread(int limit, sharedPrinter printer)
27     {
28         this.limit = limit;
29         this.printer = printer;
30     }
31    @Override
32    public void run()
33    {
34        int evenNumber = 2;
35        while (evenNumber <= limit)
36        {
37            printer.printEven(evenNumber);
38            evenNumber = evenNumber + 2;
39        }
40    }
41 }
42 class sharedPrinter
43 {
44 }
```

```

45 boolean isOddPrinted = false;
46
47 synchronized void printOdd(int number)
48 {
49     while (isOddPrinted)
50     {
51         try
52         {
53             wait();
54         }
55         catch (InterruptedException e)
56         {
57             e.printStackTrace();
58         }
59     }
60     System.out.println(Thread.currentThread().getName(
61         isOddPrinted = true;
62     try
63     {
64         Thread.sleep(1000);
65     }
66     catch (InterruptedException e)
67     {
68         e.printStackTrace();
69     }
70     notify();
71 }
72
73 synchronized void printEven(int number)
74 {
75     while (! isOddPrinted)
76     {
77         try
78         {
79             wait();
80         }
81     }
82 }
104 SharedPrinter printer = new SharedPrinter();
105 OddThread oddThread = new OddThread(20, printer);
106 oddThread.setName("--pong");
107 EvenThread evenThread = new EvenThread(20, printer);
108 evenThread.setName("ping - >");
109 oddThread.start();
110 evenThread.start();
111 }
112 }

```

```

x Terminal
--pong 1
ping - > 2
--pong 3
ping - > 4
--pong 5
ping - > 6
--pong 7
ping - > 8
--pong 9
ping - > 10
--pong 11
ping - > 12
--pong 13
ping - > 14
--pong 15
ping - > 16
--pong 17
ping - > 18
--pong 19
ping - > 20
Process finished.

```