


## DAILY ONLINE ACTIVITIES SUMMARY

Date:	18-05-2020	Name:	Kavana V
Sem & Sec	VI A	USN:	4AL17CS040
<b>Online Test Summary</b>			
Subject	CNSC IA Test		
Max. Marks	60	Score	45
<b>Certification Course Summary</b>			
Course	Web Development with Python and Javascript		
Certificate Provider	Harvard University	Duration	12weeks
<b>Coding Challenges</b>			
<b>Problem Statement:</b>  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”.			
<b>Status:Completed</b>			
Uploaded the report in Github		Yes	
If yes Repository name		<a href="https://github.com/vgkavana/Online-coding-">https://github.com/vgkavana/Online-coding-</a>	
Uploaded the report in slack		Yes	

# Online Test Details



Kavana V, your CNSC I.A 1 result is ready  Inbox x



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CNSC I.A 1.

(Choice)

**Start Round 2**

About The Assessment



Cryptography Network Security & Cyber Laws  
Round 1 ends on: 18 May, 2020 (28 Minutes)

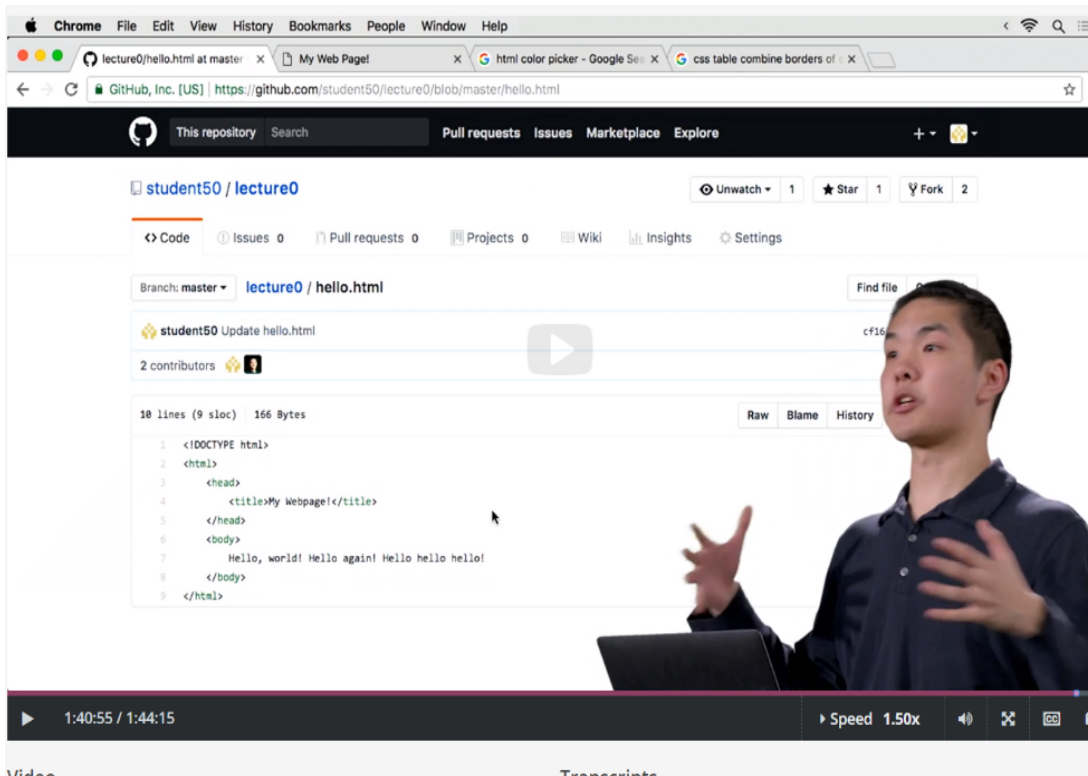
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# Online Certification Details

## Lesson-1

- Learning about Git



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lecture0/hello.html at master · student50/lecture0 · GitHub

GitHub, Inc. [US] | <https://github.com/student50/lecture0/blob/master/hello.html>

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Branch: master lecture0 / hello.html Find file

student50 Update hello.html c16

2 contributors

10 lines (9 sloc) 166 Bytes Raw Blame History

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>My Webpage</title>
5   </head>
6   <body>
7     Hello, world! Hello again! Hello hello hello!
8   </body>
9 </html>
```

1:40:55 / 1:44:15 Speed 1.50x

Video Transcripts

## 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
48 synchronized void printOdd(int number)
49 {
50 while (isOddPrinted)
51 {
52 try
53 {
54 wait();
55 }
56 catch (InterruptedException e)
57 {
58 e.printStackTrace();
59 }
60 }
61 System.out.println(Thread.currentThread().getName(
62 isOddPrinted = true;
63 try
64 {
65 Thread.sleep(1000);
66 }
67 catch (InterruptedException e)
68 {
69 e.printStackTrace();
70 }
71 notify();
72 }
73
74 synchronized void printEven(int number)
75 {
76 while (! isOddPrinted)
77 {
78 try
79 {
80 wait();
81 }
```

```

82 catch (InterruptedException e)
83 {
84 e.printStackTrace();
85 }
86 }
87 System.out.println(Thread.currentThread().getName(
88 isOddPrinted = false;
89 try
90 {
91 Thread.sleep(1000);
92 }
93 catch (InterruptedException e)
94 {
95 e.printStackTrace();
96 }
97 notify();
98 }
99 }
100 public class Main
101 {
102 public static void main(String[] args)
103 {
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 }

```

✕ 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.

```