

DAILY ONLINE ACTIVITIES SUMMARY

Date:	18 May 2020	Name:	Sana F Habib
Sem & Sec	6 th sem & B sec	USN:	4AL17CS081
Online Test Summary			
Subject	Cryptography Network Security & Cyber Laws		
Max. Marks	60	Score	41
Certification Course Summary			
Course	Machine Learning with python		
Certificate Provider	Cognitive Class	Duration	6 hours
Coding Challenges			

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

"Hello friend"

Output should be

:- 1

d: 1

e: **2**

f: 1

(continued for all character in the 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".

Take as command line arguments, the following inputs to the program:

Sleep Interval for thread t1

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".

Take as command line arguments, the following inputs to the program:

Sleep Interval for thread t1

Sleep Interval for thread t2

Message per cycle

No of cycles

Status: DONE

Uploaded the report in Github

YES

If yes Repository name

Daily Status

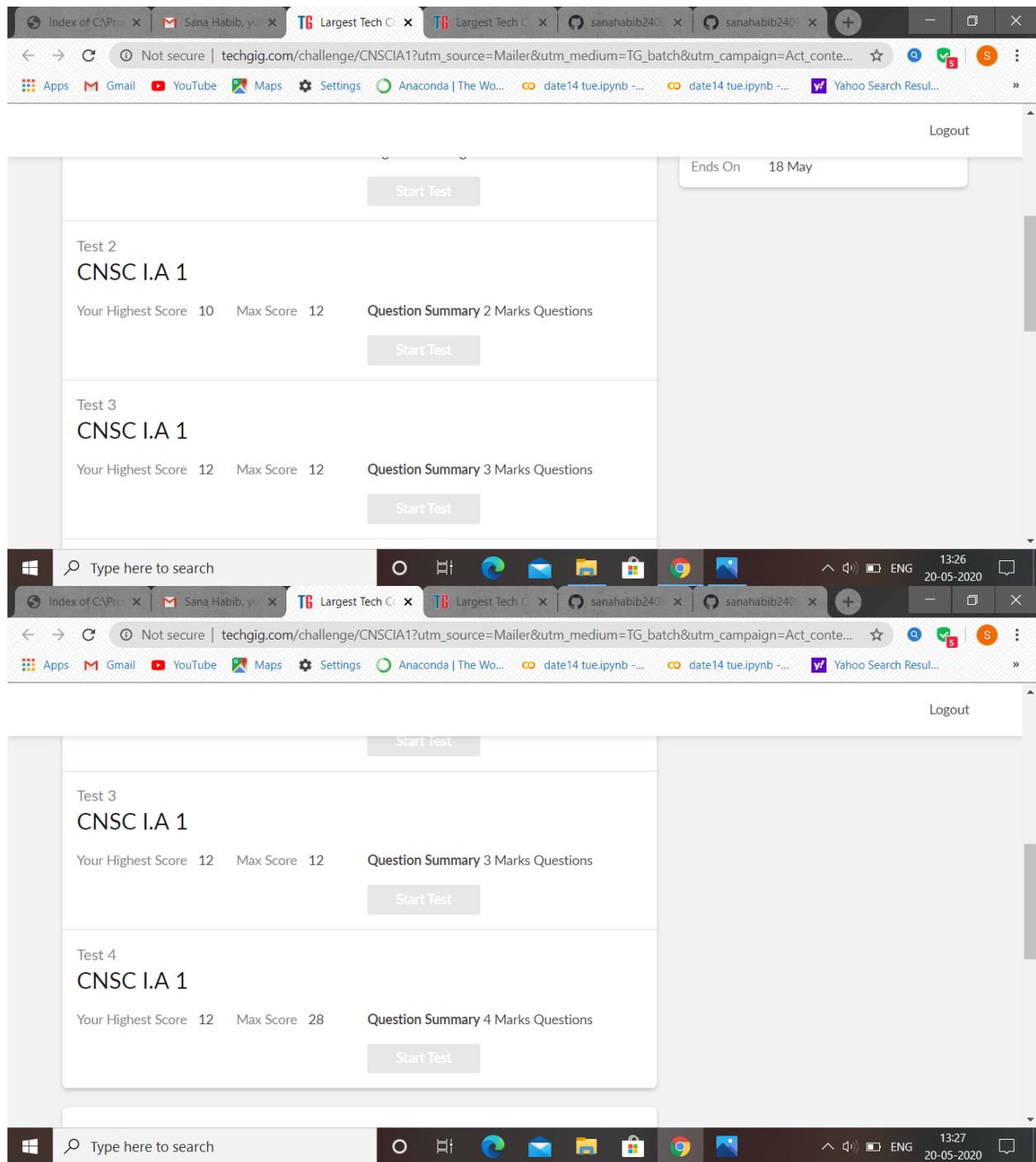
Uploaded the report in slack

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

The screenshot shows a web browser window with multiple tabs. The active tab is a challenge page on techgig.com. The page header includes a 'Logout' link. The main banner reads 'Challenge Over by TechGig Cryptography Network Security & Cyber Laws'. Below the banner, there are two main sections: 'Test 1' and 'Test 2'. The 'Test 1' section is for 'CNSC I.A 1' and shows 'Your Highest Score 7' and 'Max Score 8'. It includes a 'Question Summary' for 'CNSC I.A Test 1 with negative marking' and a 'Start Test' button. The 'Test 2' section is partially visible below. To the right of the test sections is a 'Summary' box containing the following information:

Summary	
Skills	Wireless LANs, Firewalls, IDPS, Web Security, Viruses Worms And Malwares
Ends On	18 May

The Windows taskbar at the bottom shows the search bar with 'Type here to search', several application icons, and the system clock displaying '13:26' and '20-05-2020'.



CNSC IA test was held today i.e 18 May 2020. There were four rounds where each round carried 8,12,12,28 marks respectively. Out of 60 marks I scored 41

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

Machine Learning with Python x Thank you for subscribing. Here x IBM Cloud Promotion for Cogni x Graded Review Questions | Gra x 3rd Year - Alva's Education Four x +

courses.cognitiveclass.ai/courses/course-v1:CognitiveClass+ML0101ENv3+2018/courseware/407a9f86565c44189740699636b4fb85/5f1484382669496ca959b429a604...

4. Check your grades in the course at any time by clicking on the "Progress" tab

Review Question 1

1/1 point (graded)

Machine Learning uses algorithms that can learn from data without relying on explicitly programmed methods.

☒ True ✓

☐ False

Submit You have used 1 of 1 attempt

✓ Correct (1/1 point)

Review Question 2

1/1 point (graded)

Which are the two types of Supervised learning techniques?

Activate Windows
Go to PC settings to activate Windows.

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courses.cognitiveclass.ai/courses/course-v1:CognitiveClass+ML0101ENv3+2018/courseware/407a9f86565c44189740699636b4fb85/5f1484382669496ca959b429a604...

Review Question 2

1/1 point (graded)

Which are the two types of Supervised learning techniques?

☐ Classification and Clustering

☐ Classification and K-Means

☐ Regression and Clustering

☐ Regression and Partitioning

☒ Classification and Regression ✓

Submit You have used 1 of 1 attempt

✓ Correct (1/1 point)

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Review Question 3

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courses.cognitiveclass.ai/courses/course-v1:CognitiveClass+ML0101ENv3+2018/courseware/407a9f86565c44189740699636b4fb85/5f1484382669496ca959b429a604...

✓ Correct (1/1 point)

Review Question 3

1/1 point (graded)

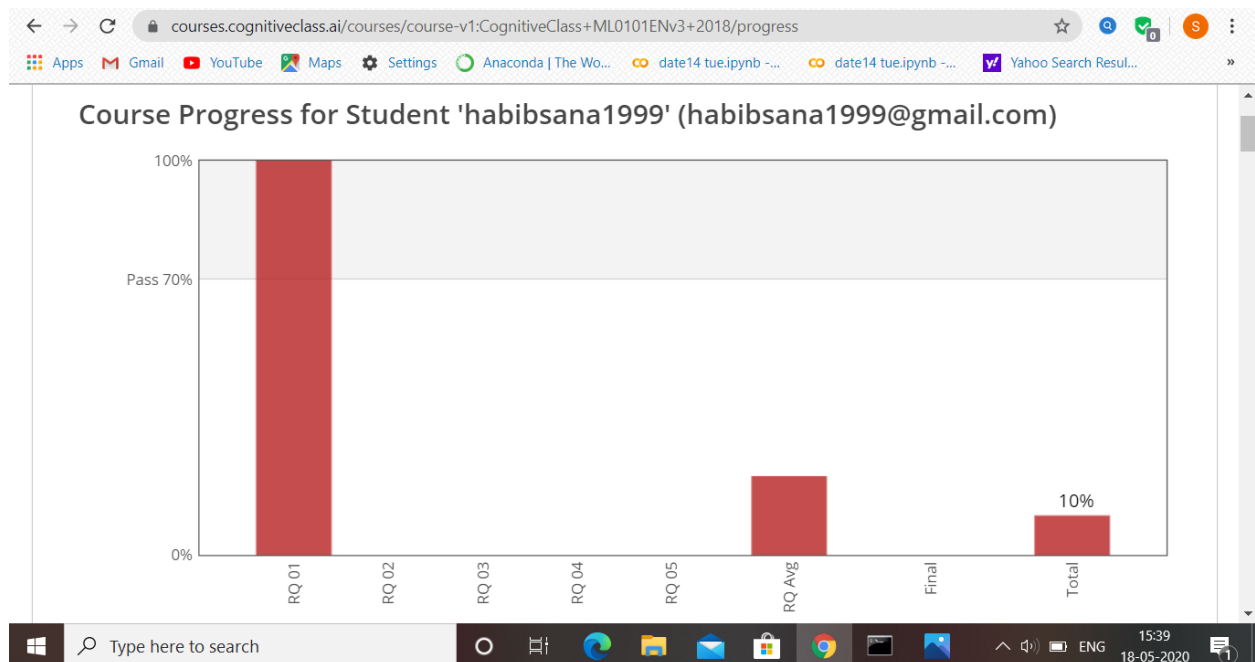
Which of the following statements best describes the Python scikit library?

- ☐ A library for scientific and high-performance computation.
- ☒ A collection of algorithms and tools for machine learning. ✓
- ☐ A popular plotting package that provides 2D plotting as well as 3D plotting.
- ☐ A library that provides high-performance, easy to use data structures.
- ☐ A collection of numerical algorithms and domain-specific toolboxes.

Submit You have used 1 of 2 attempts Save

✓ Correct (1/1 point)

Activate Windows
Go to PC settings to activate Windows.



DAY 1 (18-05-2020)- INTRODUCTION ,GENERAL OBJECTIVES ,MODULE 1 MACHINE LEARNING AND REVIEW QUESTIONS ARE COMPLETED

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

Program 1

```
import java.util.Scanner;

public class Main
{
    public static void main(String args[])
    {
        int i;
        String str;
        int counter[] = new int[256];
        Scanner in = new Scanner(System.in);
        System.out.print("Enter a String : ");
        str=in.nextLine();
        for (i = 0; i < str.length(); i++) {
            counter[(int) str.charAt(i)]++;
        }
        for (i = 0; i < 256; i++) {
            if (counter[i] != 0) {
                System.out.println( (char) i + ":" +counter[i]);
            }
        }
    }
}
```

Program 2

```
class OddThread extends Thread
{

```

```
int limit;

sharedPrinter printer;

public OddThread(int limit, sharedPrinter printer)
{
    this.limit = limit;
    this.printer = printer;
}

@Override

public void run()
{
    int oddNumber = 1;
    while (oddNumber <= limit)
    {
        printer.printOdd(oddNumber);
        oddNumber = oddNumber + 2;
    }
}
}
```

```
class EvenThread extends Thread
{
    int limit;
    sharedPrinter printer;

    public EvenThread(int limit, sharedPrinter printer)
    {
```



```
this.limit = limit;

this.printer = printer;
}

@Override

public void run()
{
    int evenNumber = 2;
    while (evenNumber <= limit)
    {
        printer.printEven(evenNumber);
        evenNumber = evenNumber + 2;
    }
}

class sharedPrinter
{

    boolean isOddPrinted = false;

    synchronized void printOdd(int number)
    {
        while (isOddPrinted)
        {
            try
```

```
{
wait();
}
catch (InterruptedException e)
{
e.printStackTrace();
}
}
System.out.println(Thread.currentThread().getName()+" "+number);
isOddPrinted = true;
try
{
Thread.sleep(1000);
}
catch (InterruptedException e)
{
e.printStackTrace();
}
notify();
}

synchronized void printEven(int number)
{
while (! isOddPrinted)
{
```

```
try
{
wait();
}
catch (InterruptedException e)
{
e.printStackTrace();
}
}
System.out.println(Thread.currentThread().getName()+" "+number);
isOddPrinted = false;
try
{
Thread.sleep(1000);
}
catch (InterruptedException e)
{
e.printStackTrace();
}
notify();
}
}
public class Main
{
public static void main(String[] args)
```

```
{  
    sharedPrinter printer = new sharedPrinter();  
    OddThread oddThread = new OddThread(20, printer);  
    oddThread.setName("—-pong");  
    EvenThread evenThread = new EvenThread(20, printer);  
    evenThread.setName("ping — >");  
    oddThread.start();  
    evenThread.start();  
}  
}
```