

DAILY ONLINE ACTIVITIES SUMMARY

Date:	18 May 2020	Name:	Asha Rudrappa Totagi
Sem& Sec	6thsem& A sec	USN:	4AL17CS015
Online Test Summary			
Subject	Cryptography Network Security & Cyber Laws		
Max. Marks	60	Score	49
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

h: 1

e: 1

l: 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 the URL `techgig.com/challenge/CNSCIA1?auto_login_saas=VIFZYjRHRkNmZFIVQUFjUkhBaUhHZWRnSUXQenh4LzBqOWhsdENvR...`. The page features a header with a 'Logout' link and a 'Challenge Over' badge. The main title is 'Cryptography Network Security & Cyber Laws' by TechGig. Below the title, there are two summary cards. The first card, 'Test 1 CNSC I.A 1', shows 'Your Highest Score 7' and 'Max Score 8', with a 'Start Test' button. The second card, 'Summary', lists skills: 'Wireless LANs, Firewalls, IDPS, Web Security, Viruses Worms And Malwares' and 'Ends On 18 May'. The Windows taskbar at the bottom shows the time as 3:11 PM on 20/05/2020.

Logout

Challenge Over
by TechGig

Cryptography Network Security & Cyber Laws

Test 1
CNSC I.A 1

Your Highest Score 7 Max Score 8

Question Summary CNSC I.A Test 1 with negative marking

Start Test

Summary

Skills Wireless LANs, Firewalls, IDPS, Web Security, Viruses Worms And Malwares

Ends On 18 May

This screenshot shows the same TechGig challenge page but with a scrollable list of tests. The first test is 'Test 1 CNSC I.A 1' with a 'Start Test' button. Below it are 'Test 2 CNSC I.A 1' (Your Highest Score 10, Max Score 12), 'Test 3 CNSC I.A 1' (Your Highest Score 12, Max Score 12), and 'Test 4 CNSC I.A 1' (Your Highest Score 20, Max Score 28). Each test has a 'Start Test' button. The Windows taskbar at the bottom shows the time as 3:11 PM on 20/05/2020.

Test 2
CNSC I.A 1

Your Highest Score 10 Max Score 12

Question Summary 2 Marks Questions

Start Test

Test 3
CNSC I.A 1

Your Highest Score 12 Max Score 12

Question Summary 3 Marks Questions

Start Test

Test 4
CNSC I.A 1

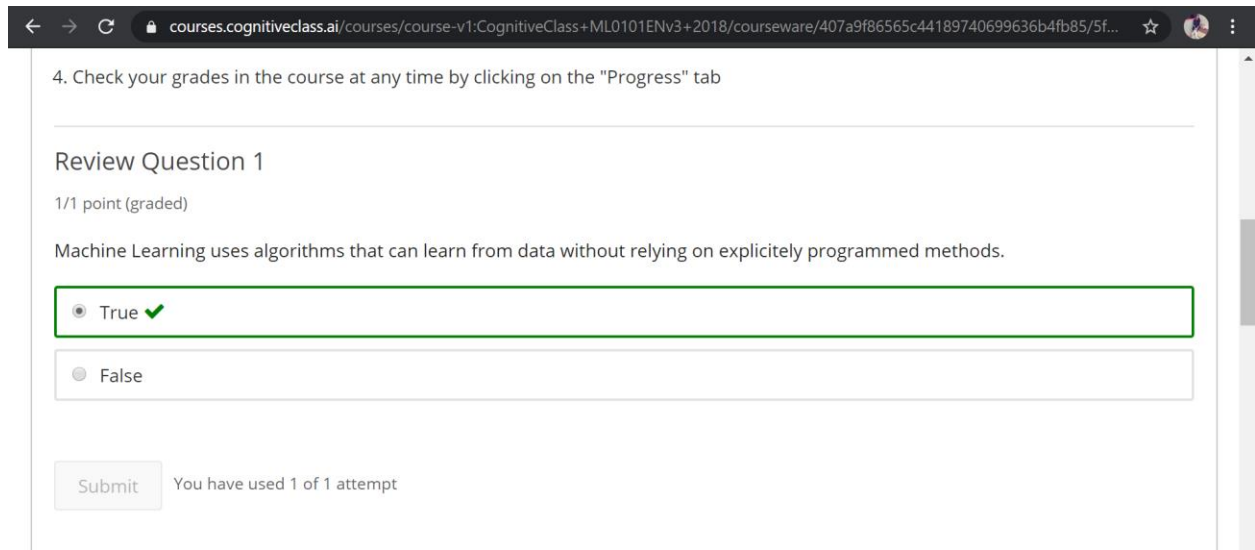
Your Highest Score 20 Max Score 28

Question Summary 4 Marks Questions

Start Test

CNSC IAtest 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 49

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



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

Review Question 1

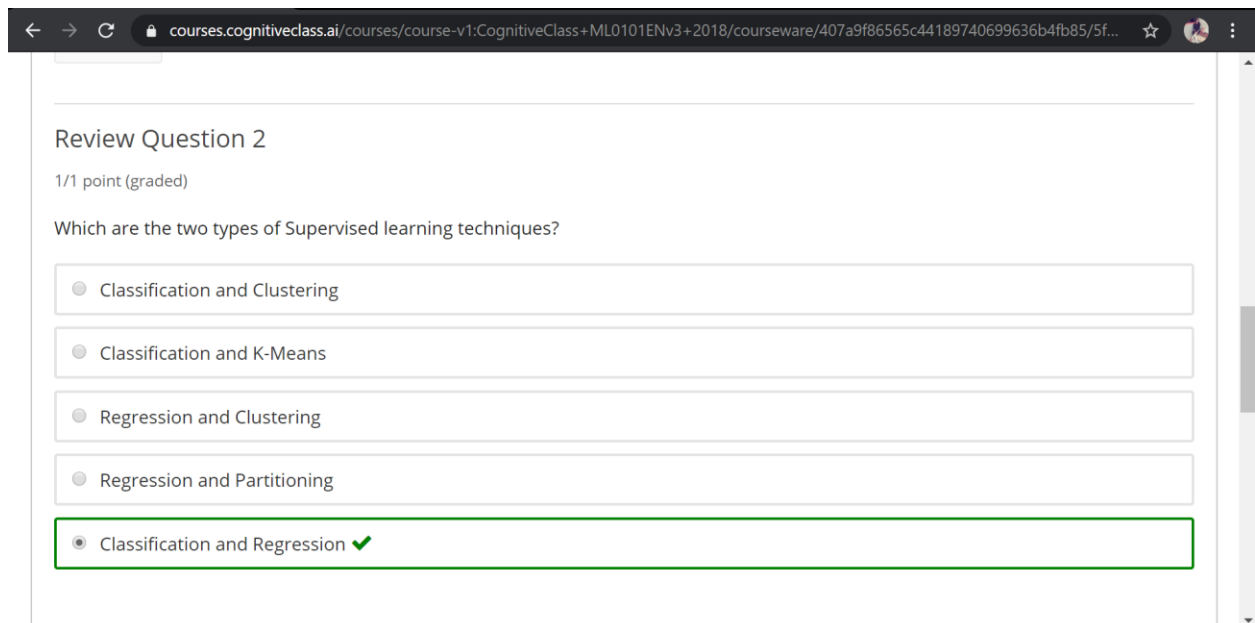
1/1 point (graded)

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



Review Question 2

1/1 point (graded)

Which are the two types of Supervised learning techniques?

☒ Classification and Regression ✓

☐ Classification and Clustering

☐ Classification and K-Means

☐ Regression and Clustering

☐ Regression and Partitioning

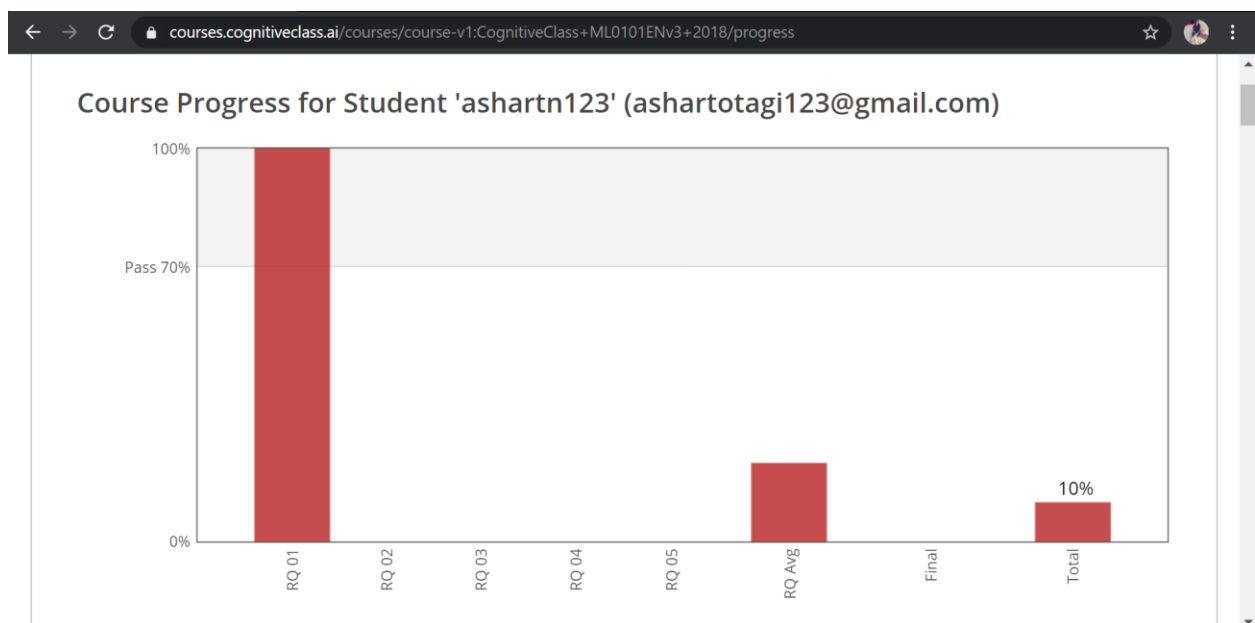
← → ↻ courses.cognitiveclass.ai/courses/course-v1:CognitiveClass+ML0101ENV3+2018/courseware/407a9f86565c44189740699636b4fb85/5f... ☆

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.



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[])
    {
        inti;

        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

```
classOddThread extends Thread
{
    int limit;
    sharedPrinter printer;
    publicOddThread(int limit, sharedPrinter printer)
    {
        this.limit = limit;
        this.printer = printer;
    }
    @Override
    public void run()
    {
        intoddNumber = 1;
        while (oddNumber<= limit)
        {
            printer.printOdd(oddNumber);
            oddNumber = oddNumber + 2;
        }
    }
}
```

```
classEvenThread extends Thread
{
    int limit;
    sharedPrinter printer;
```

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