DAILY ONLINE ACTIVITIES SUMMARY

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Sem & Sec	6A	USN:	4AL17CS008

Online Test Summary

Subject	OS		
Max. Marks	30	Score	11

Certification Course Summary

Course	Python for data science		
Certificate Provider	COGNITIVE CLASS .ai	Duration	5hr

Coding Challenges

Problem Statement:

1. Write a Java program to implement Queue Using Array And Class
2. Python program to combine the strings

Status: completed

Uploaded the report in Github	Yes
If yes Repository name	https://github.com/anvithapo99/Daily-Report
Uploaded the report in slack	Yes

Online test details:

Subject: OS
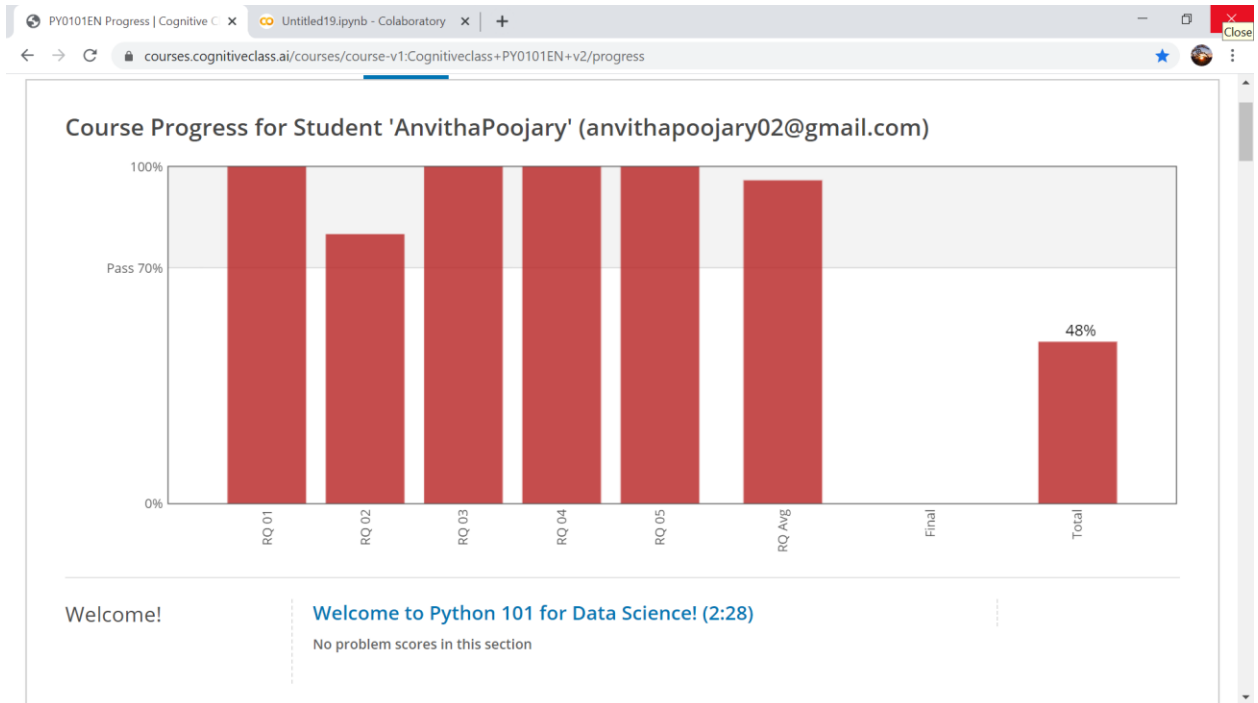

Certification course details:

<u>Python for data science</u>

Today I have studied following topics:

- ➢ Numpy
- ➢ And its operations
- ➢ Some example program

Coding Challenges Details:

1. Write a Java program to implement Queue Using Array And Class

```java
public class QueueUsingArrayMain {

 private int capacity;

        int queueArr[];

        int front;

        int rear;

        int currentSize = 0;


        public QueueUsingArrayMain(int sizeOfQueue) {
```

```java
            this.capacity = sizeOfQueue;

            front = 0;

            rear = -1;

            queueArr = new int[this.capacity];

    }

    public void enqueue(int data) {

            if (isFull()) {

                    System.out.println("Queue is full!! Can not add more elements");

            } else {

                    rear++;

                    if (rear == capacity - 1) {

                            rear = 0;

                    }

                    queueArr[rear] = data;

                    currentSize++;

                    System.out.println(data + " added to the queue");

            }

    }

    public void dequeue() {

            if (isEmpty()) {

                    System.out.println("Queue is empty!! Can not dequeue element");

            } else {

                    front++;

                    if (front == capacity - 1) {

                            System.out.println(queueArr[front - 1] + " removed from the queue");
```

```java
						front = 0;

				} else {

						System.out.println(queueArr[front - 1] + " removed from the queue");

				}

				currentSize--;

		}

}

public boolean isFull() {

		if (currentSize == capacity) {

				return true;

		}

		return false;

}

public boolean isEmpty() {


		if (currentSize == 0) {

				return true;

		}

		return false;

}


public static void main(String a[]) {


		QueueUsingArrayMain queue = new QueueUsingArrayMain(5);

		queue.enqueue(6);
```

```
        queue.dequeue();

        queue.enqueue(3);

        queue.enqueue(99);

        queue.enqueue(56);

        queue.dequeue();

        queue.enqueue(43);

        queue.dequeue();

        queue.enqueue(89);

        queue.enqueue(77);

        queue.dequeue();

        queue.enqueue(32);

        queue.enqueue(232);

    }

}
```
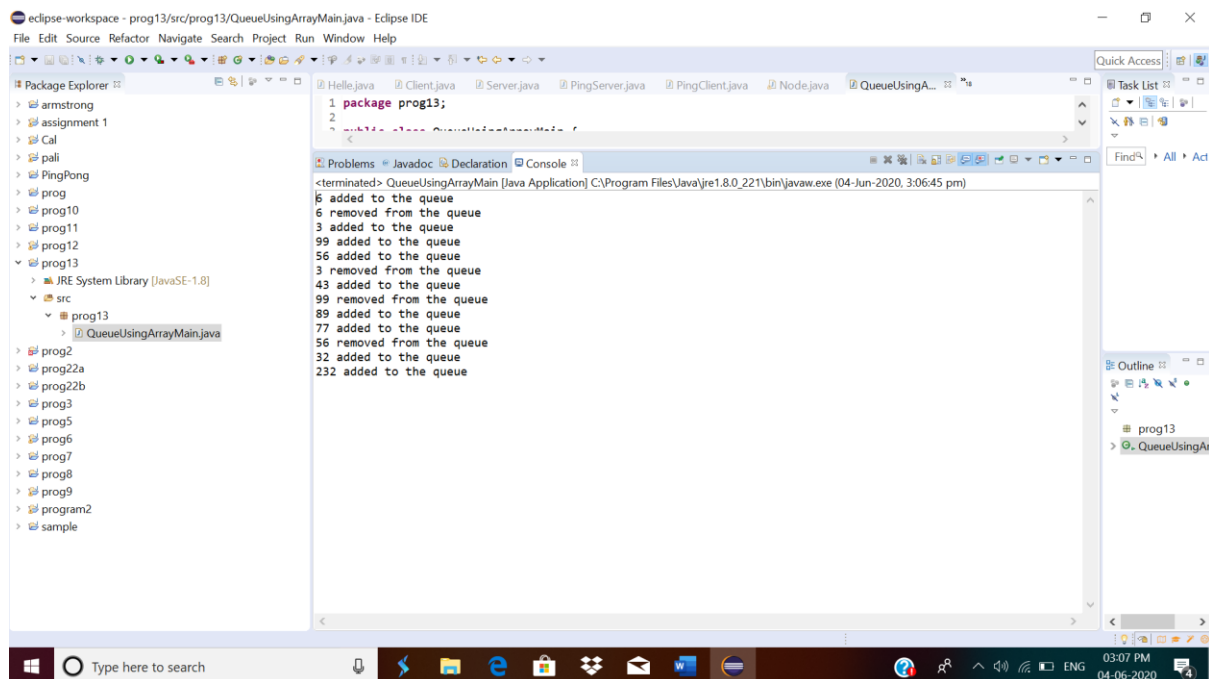
Output:

2.Python program to combine the strings

Description:

Take two strings, return a string of the form short+long+short, with the shorter string on the outsides and the longer string on the inside. The strings will not be the same length, but they may be empty (length 0).

Eg:
Str1= 'Hello'
Str2= 'Hi'
Combined_str('Hello', 'Hi') ='HiHelloHi'

str1=input('enter first string: ')

str2=input('enter second string:')

a=len(str1)

b=len(str2)

if(a<b):

   print(str1+str2+str1)

else:

   print(str2+str1+str2)

output:

File Edit Shell Debug Options Window Help

```
Python 3.7.4 (default, Aug  9 2019, 18:34:13) [MSC v.1915 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
=============== RESTART: C:/Users/hp/Desktop/combinedstring.py ===============
enter first string: hi
enter second string:hello
hihellohi
>>>
```

Ln: 8 Col: 4