DAILY ONLINE ACTIVITIES SUMMARY

Date:	**05-06-2020**	**Name:**	**Anvitha Poojary**
Sem & Sec	**6A**	**USN:**	**4AL17CS008**

Online Test Summary

Subject	**OR**		
Max. Marks	**30**	**Score**	**30**

Certification Course Summary

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

Coding Challenges

Problem Statement:

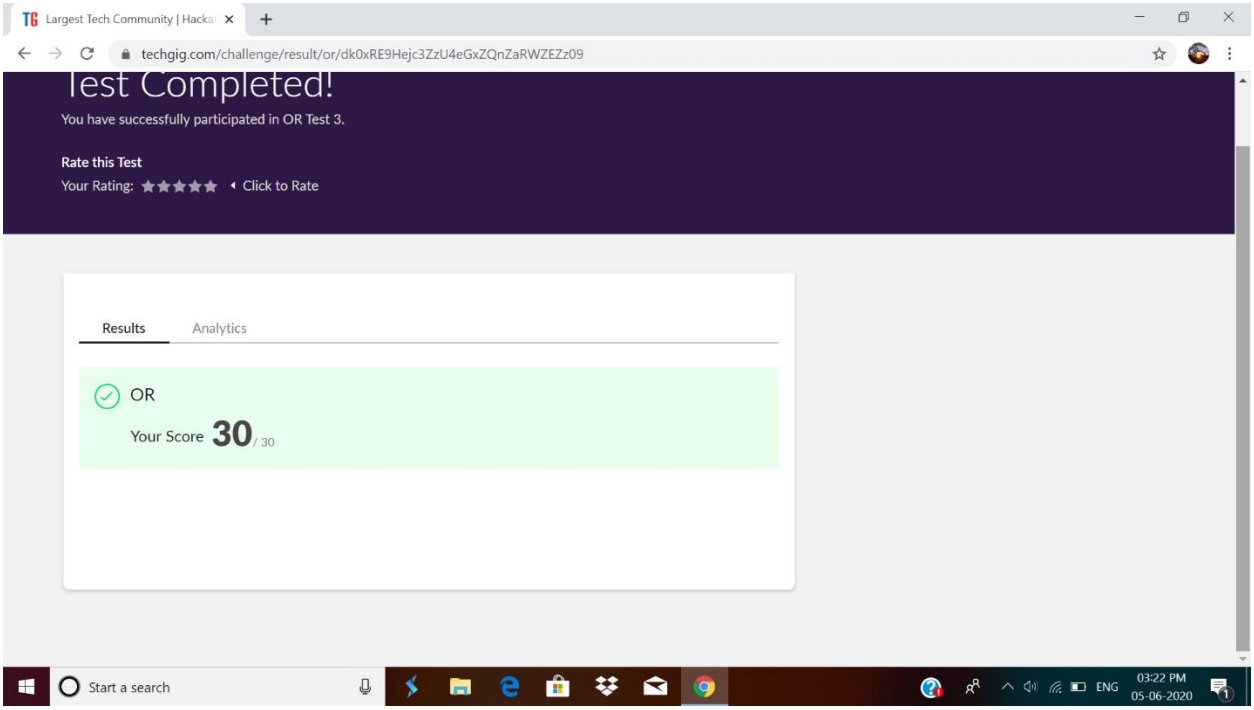
1. Write a Java program to implement Circular Linked List Using Array And Class
2. Python program to square each odd number in the list

Status: completed

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

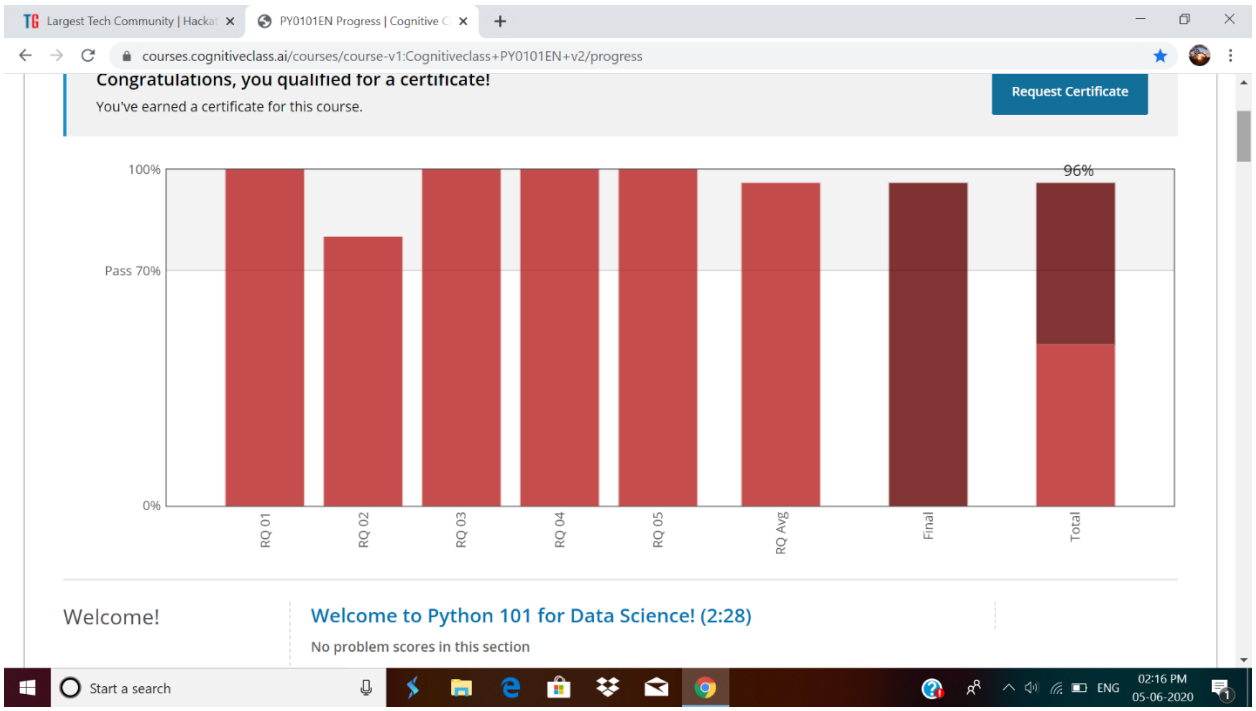
Online test details:

Subject: OR



Certification course details:

Python for data science



Coding Challenges Details:

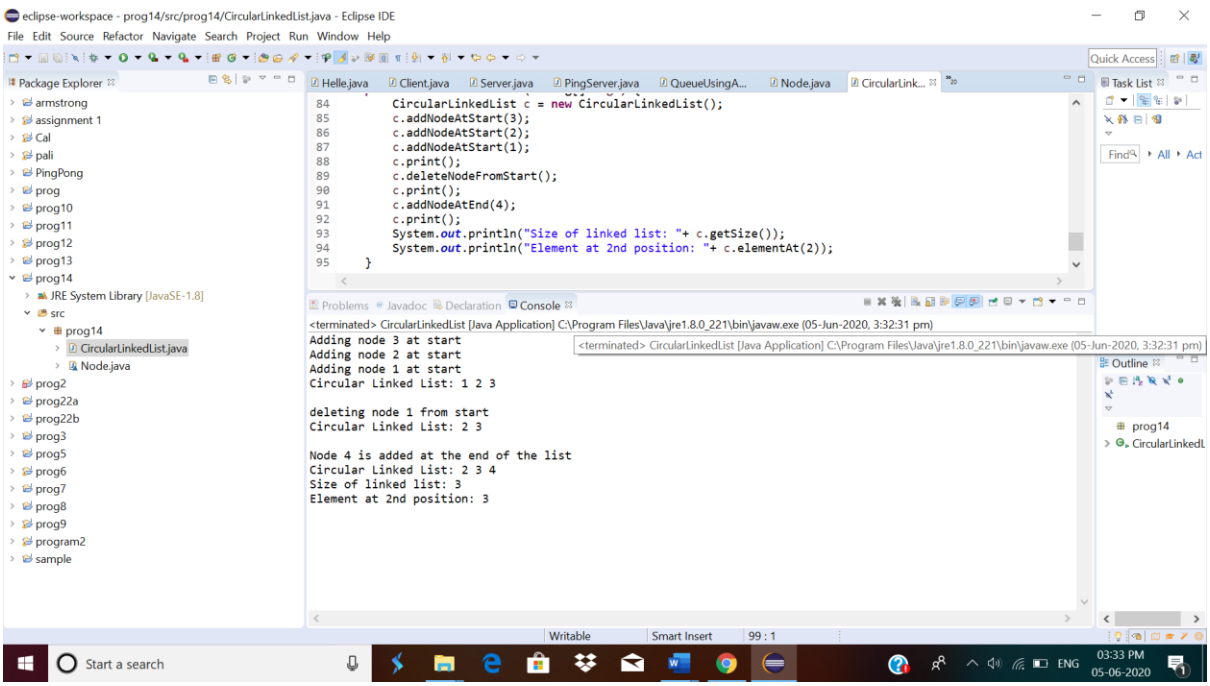
1.Write a Java program to implement Circular Linked List Using Array And Class

```
package prog14;

public class CircularLinkedList {

    public int size =0;
    public Node head=null;
    public Node tail=null;

    //add a new node at the start of the linked list
    public void addNodeAtStart(int data){
        System.out.println("Adding node " + data + " at start");
        Node n = new Node(data);
        if(size==0){
            head = n;
            tail = n;
            n.next = head;
        }else{
```

```
            Node temp = head;
            n.next = temp;
            head = n;
            tail.next = head;
        }
        size++;
    }

    public void addNodeAtEnd(int data){
        if(size==0){
            addNodeAtStart(data);
        }else{
            Node n = new Node(data);
            tail.next =n;
            tail=n;
            tail.next = head;
            size++;
        }
        System.out.println("\nNode " + data + " is added at the end of the list");
    }

    public void deleteNodeFromStart(){
        if(size==0){
            System.out.println("\nList is Empty");
        }else{
            System.out.println("\ndeleting node " + head.data + " from start");
            head = head.next;
            tail.next=head;
            size--;
        }
    }

    public int elementAt(int index){
        if(index>size){
            return -1;
        }
        Node n = head;
        while(index-1!=0){
            n=n.next;
            index--;
        }
        return n.data;
    }

    //print the linked list
    public void print(){
        System.out.print("Circular Linked List:");
        Node temp = head;
        if(size<=0){
            System.out.print("List is empty");
        }else{
            do {
                System.out.print(" " + temp.data);
                temp = temp.next;
            }
```

```
            while(temp!=head);
        }
        System.out.println();
    }

    //get Size
    public int getSize(){
        return size;
    }

    public static void main(String[] args) {
        CircularLinkedList c = new CircularLinkedList();
        c.addNodeAtStart(3);
        c.addNodeAtStart(2);
        c.addNodeAtStart(1);
        c.print();
        c.deleteNodeFromStart();
        c.print();
        c.addNodeAtEnd(4);
        c.print();
        System.out.println("Size of linked list: "+ c.getSize());
        System.out.println("Element at 2nd position: "+ c.elementAt(2));
    }

}

package prog14;

class Node{
    int data;
    Node next;
    public Node(int data){
       this.data = data;
    }
}
```

Output:



2.Python program to square each odd number in the list

Description:
Take a list of numbers and square each odd number in the list. Print output as comma separated sequence.
eg:
input list: [2,4,5,6,7,8,9]
output: 25,49,81

Program:

```
a=[2,4,5,6,7,8,9]

print(a)

print([i*i for i in a if(i%2!=0)])
```

output:


Python 3.7.4 Shell
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/oddlistsqaure.py ==========
[2, 4, 5, 6, 7, 8, 9]
[25, 49, 81]
>>>
Ln: 7 Col: 4
Start a search
ENG
04:33 PM
05-06-2020