DAILY ONLINE ACTIVITIES SUMMARY

Date:	**19 May 2020**	**Name:**	**RAVALI P**
Sem& Sec	**6thsem& B sec**	**USN:**	**4AL17CS076**

Online Test Summary

Subject	**Cryptography Network Security & Cyber Laws**		
Max. Marks	**60**	**Score**	**51**

Certification Course Summary

Course	**Machine Learning with python**		
Certificate Provider	**Congnitive Class**	**Duration**	**6 hours**

Coding Challenges

1.We have a Letter or a word then we need add some letters to it and need to find out shortest palindrome

For example we take "S": S will be the shortest palindrome string.
If we take "xyz": zyxyz will be the shortest palindrome string
So we need to add some characters to the given string or character and find out what will be the shortest palindrome string by using simple java program

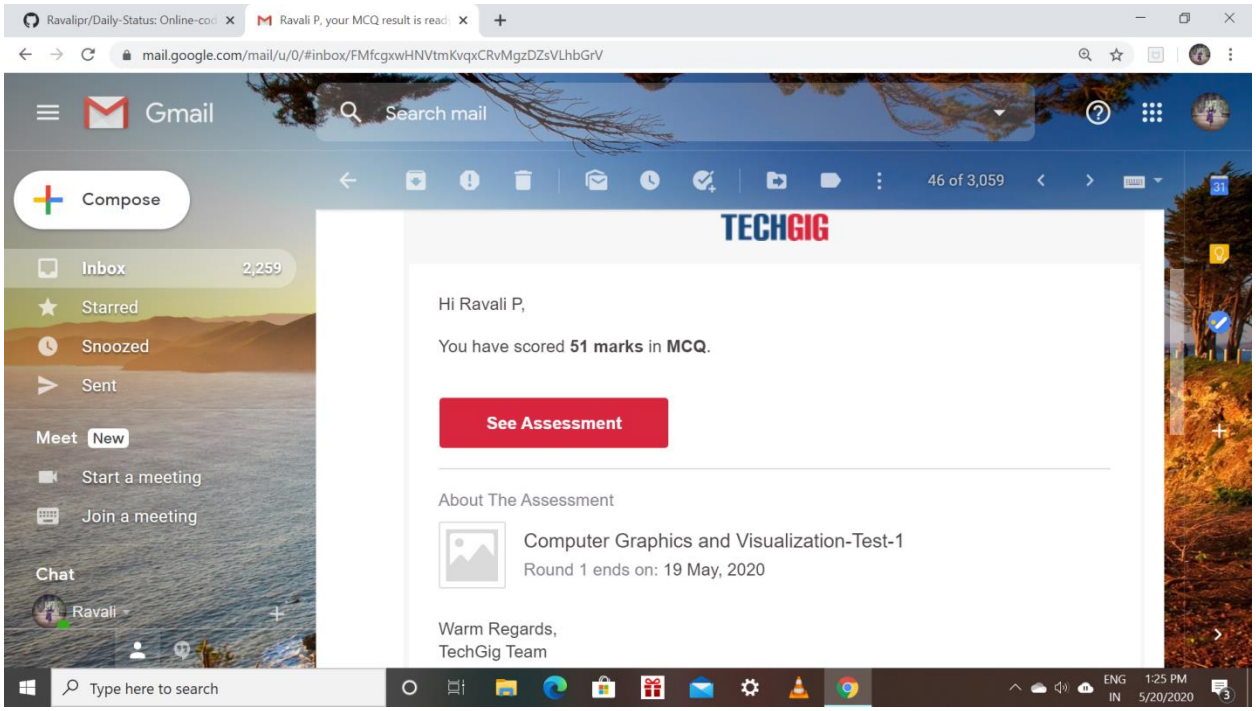
2. Write a simple code to identify given linked list is palindrome or not by using stack.
First take a Stack. Traverse through each node of the linked list and push each node value to Stack.
Once the traversal & copying is done, iterate through linked list from head node again.
In each iteration, pop one stack element and compare with node value in respective iteration. It is expected to match stack popped value with node value.
In case of all matches, its a palindrome. Any one element mismatch makes it not a palindrome.

Status: DONE

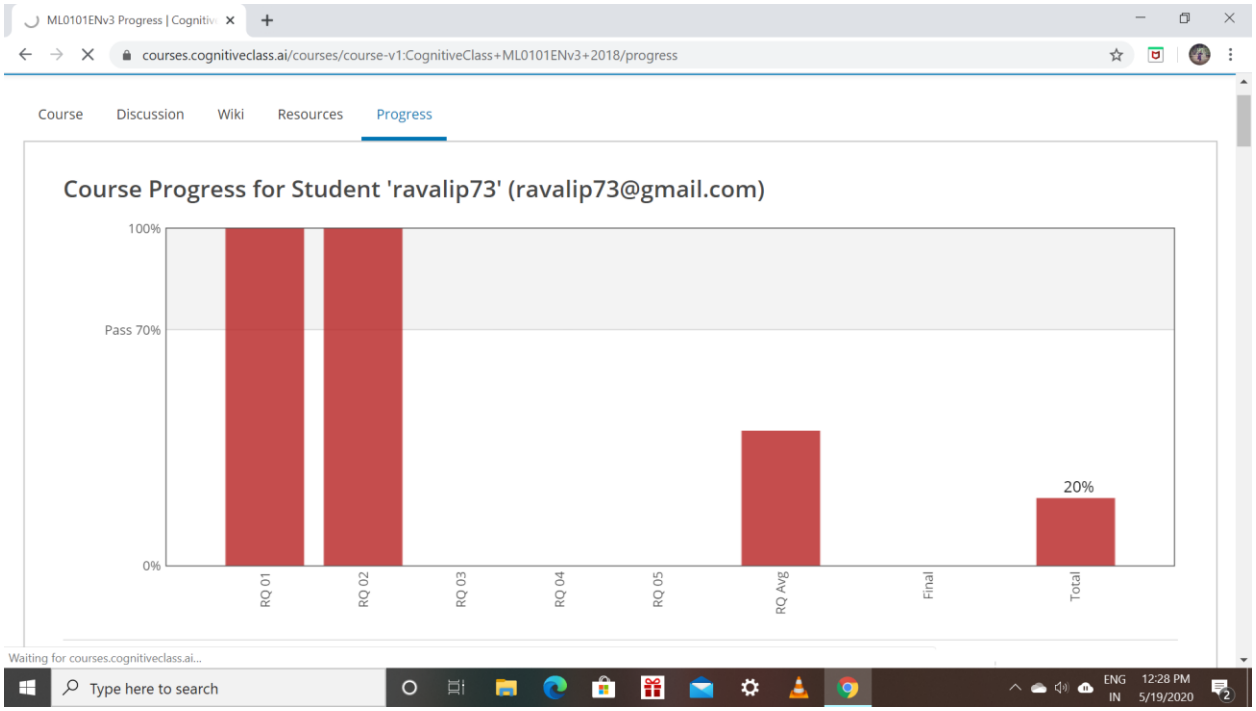
Uploaded the report in Github	**YES**
If yes Repository name	**Daily Status**
Uploaded the report in slack	**yes**

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

CGV test was held today i.e 19 May 2020. There were three rounds where each round carried totally 60 marks respectively. Out of 60 marks I scored 51



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



DAY 2 (19-05-2020)- MODULE 2 Regression –linear objectives ,introduction to regression,simple and multi linear regression ,model evalution and review questions.

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

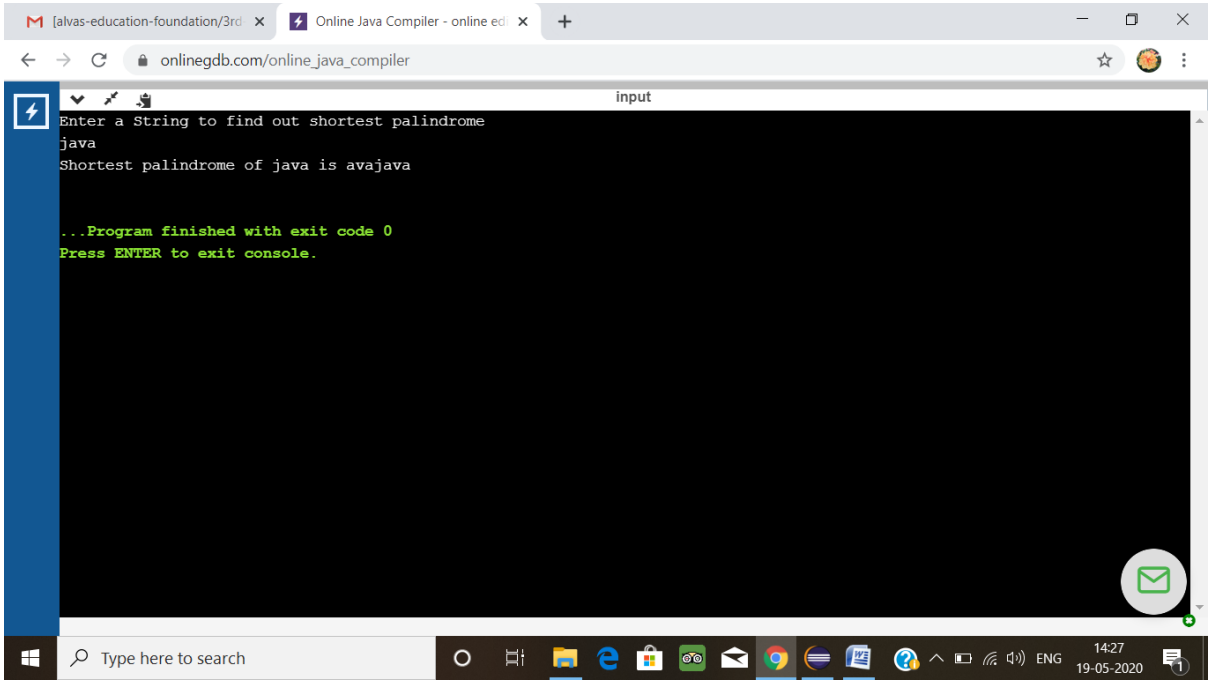
```
1.import java.util.*;

public class Main{

 public static String shortestPalindrome(String str) {

    int x=0;

int y=str.length()-1;

     while(y>=0){

    if(str.charAt(x)==str.charAt(y)){

      x++;

        }

        y--;

 }

 if(x==str.length())

return str;

 String suffix = str.substring(x);

String prefix = new StringBuilder(suffix).reverse().toString();

String mid = shortestPalindrome(str.substring(0, x));

 return prefix+mid+suffix;

}

 public static void main(String[] args) {

 Scanner in = new Scanner(System.in);

 System.out.println("Enter a String to find out shortest palindrome");

 String str=in.nextLine();
```

System.out.println("Shortest palindrome of "+str+" is "+shortestPalindrome(str));

}

}

Output:



2. import java.util.Stack;

public class Main {

public static void main(String[] a){

Node n1 = new Node(10);

Node n2 = new Node(28);

Node n3 = new Node(15);

Node n4 = new Node(29);

Node n5 = new Node(10);

n1.next = n2;

n2.next = n3;

```
        n3.next = n4;
        n4.next = n5;
        boolean result = isPalindrome(n1);
        System.out.println("Is it palindrome: "+result);
    }
static class Node {
        int data;
        Node next;
        Node(int tmp) {
            data = tmp;
        }
    }

    static boolean isPalindrome(Node head) {
Node tempNode = head;
        Stack<Integer> stack = new Stack<Integer>();
        while(tempNode != null) {
            stack.push(tempNode.data);
            tempNode = tempNode.next;
        }
        while(head != null) {
            if(head.data != stack.pop()) {
                return Boolean.FALSE;
            }
            head = head.next;
```

```
    }
 return Boolean.TRUE;
   }
}
```

Output: