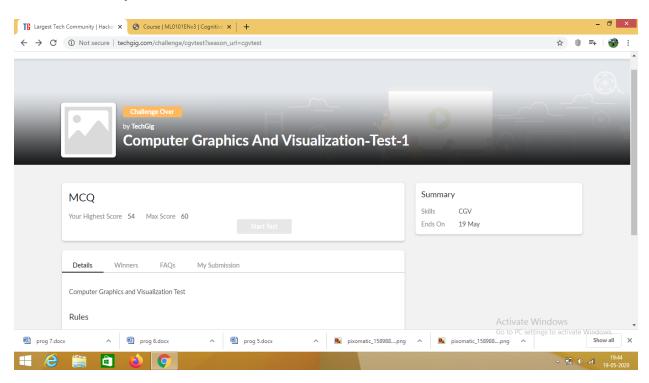
## **DAILY ONLINE ACTIVITIES SUMMARY**

Date:	19-05-20	20	Name:	Rani M.D		
Sem & Sec 6 <sup>th</sup> sem & B sec		USN:	4AL17Cs075			
Online Test Summary						
Subject Computer Graphics and Visualization						
Max. Marks 60			Score	54		
Certification Course Summary						
Course Machine Learning with python						
Certificate Provider		Cognizant class	Duration		10 hours	
Coding Challenges						
need to find For example If we take "xy So we need shortest palin 2. Write a sin First take a S Stack. Once the trail n each iteratis expected to	out shortes we take "S yz": zyxyz y to add som ndrome str nple code y Stack. Trav versal & co tion, pop o o match st	We have a Letter or a st palindrome S": S will be the shortes will be the shortest paline characters to the giving by using simple javito identify given linked terse through each nod pying is done, iterate the stack element and cack popped value with its a palindrome. Any cast	st palindrome str ndrome string ven string or char a program. list is palindrome le of the linked list chrough linked list compare with not node value.	ing.  acter and for not by stand push the from head de value in	find out what will be the using stack. In each node value to d node again. It respective iteration. It	
3.A user will input two strings, and we find if one of the strings is a sub sequence of the other. Program prints "yes" if either the first string is a sub sequence of the second string or the second string is a sub sequence of the first string.  Assume that, the length of the first string is smaller than or equal to the length of the second string.						

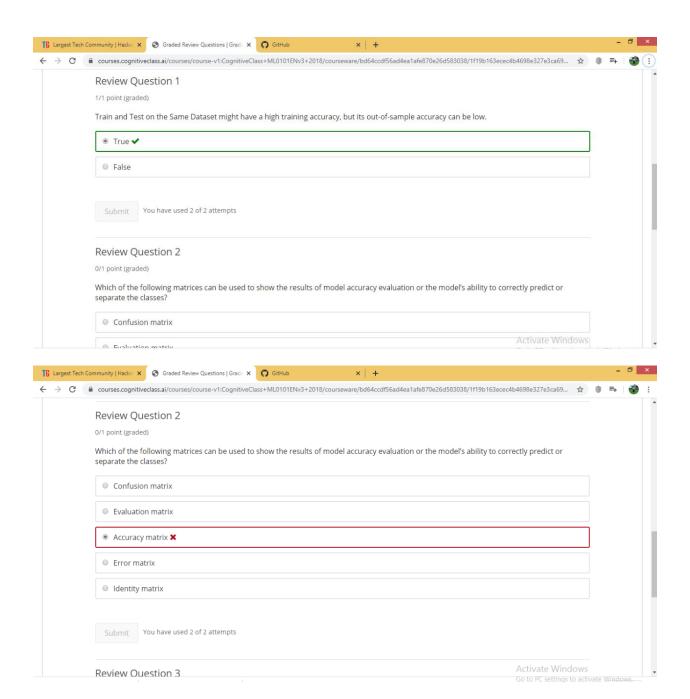
Status: DONE	
Uploaded the report in Github	YES
If yes Repository name	DAILY STATUS, QUARENTINE CODING, PYTHON CERTIFICATION COURSE
Uploaded the report in slack	YES

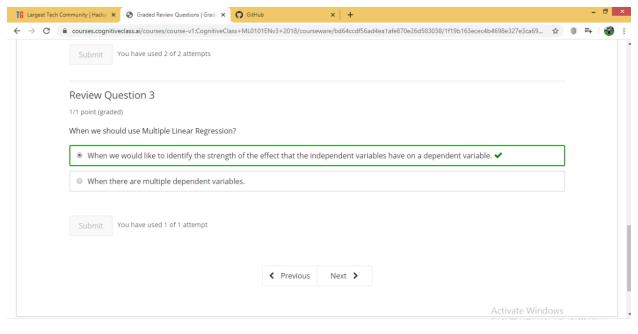
## Online Test Details: (Attach the snapshot and briefly write the report for the same)

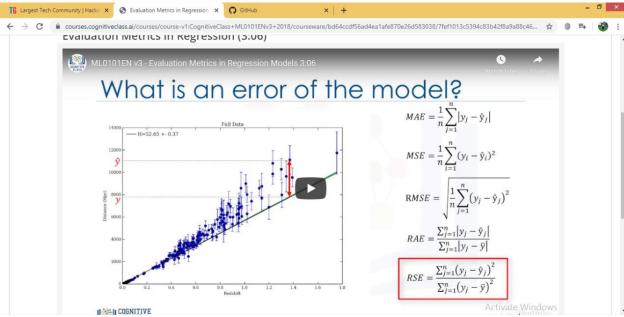


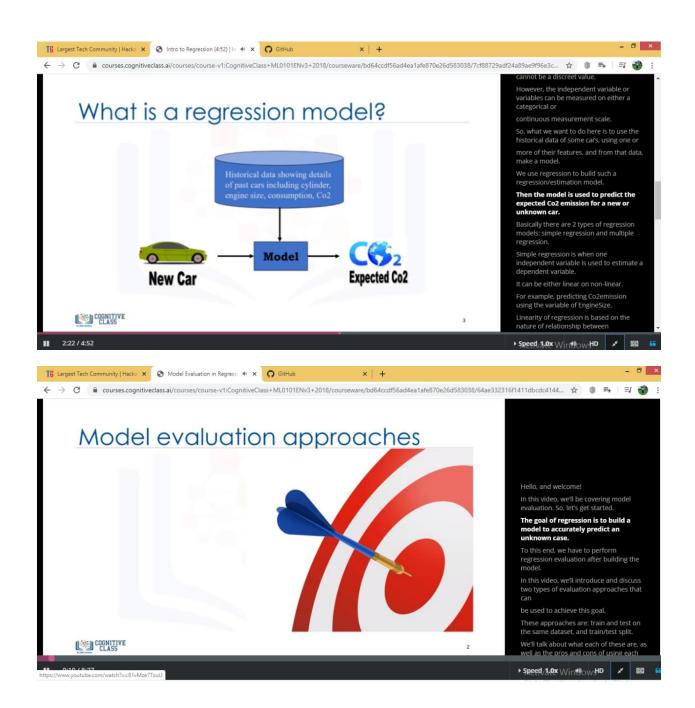
CGV test was held today i.e 19-05-2020. The maximum marks was for 60 marks. Out of which I got 54 marks

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











DAY 2 (19-05-2020)-Intro to Regression ,Simple Linear Regression ,Multiple Linear Regression ,Model Evaluation in Regression Models ,Evaluation Metrics in Regression ,Non-Linear Regression ,Graded Review Questions ARE COMPLETED

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

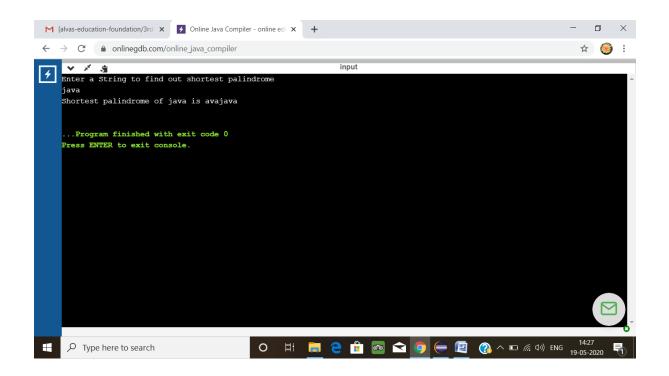
1. We have a Letter or a word then we need add some letters to it and need to find out shortest palindrome

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

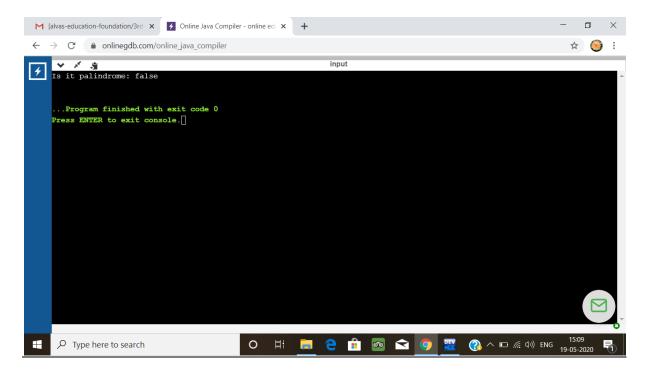
```
import java.util.*;
public class Main{
public static String shortestPalindrome(String str) {
  int x=0;
int y=str.length()-1;
   while(y>=0){
  if(str.charAt(x)==str.charAt(y)){
   X++;
     }
     y--;
}
if(x==str.length())
return str;
String suffix = str.substring(x);
String prefix = new StringBuilder(suffix).reverse().toString();
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));
}
```



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.

```
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;
    }
  }
```



3.A user will input two strings, and we find if one of the strings is a sub sequence of the other. Program prints "yes" if either the first string is a sub sequence of the second string or the second string is a sub sequence of the first string.

Assume that, the length of the first string is smaller than or equal to the length of the second string.

## An expected output of the program:

Input the first string tree Input the second string Computer science is awesome YES

```
#include <stdio.h>
#include <string.h>
int check_subsequence (char [], char[]);

int main () {
  int flag;
  char s1[1000], s2[1000];

  printf("Input first string\n");
  gets(s1);
```

```
printf("Input second string\n");
 gets(s2);
 if(strlen(s1) < strlen(s2))
  flag = check_subsequence(s1, s2);
 else
  flag = check subsequence(s2, s1);
 if (flag)
  printf("YES\n");
 else
  printf("NO\n");
 return 0;
int check_subsequence (char a[], char b[]) {
 int c, d;
 c = d = 0;
 while (a[c] != '\0') {
  while ((a[c] != b[d]) \&\& b[d] != '\0') \{
   d++;
  if(b[d] == '\0')
   break;
  d++;
  c++;
 if (a[c] == '\0')
  return 1;
 else
  return 0;
```

## <u>output</u>

