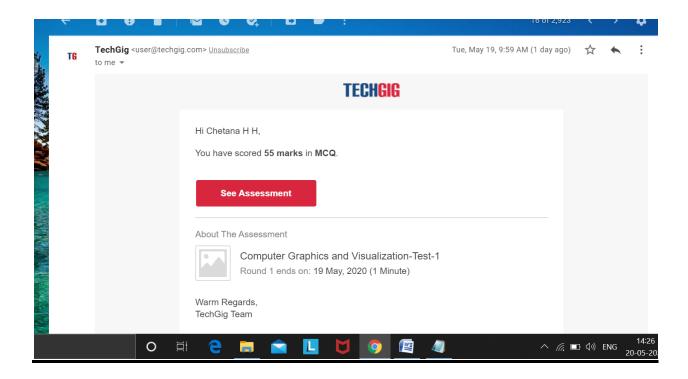
## **DAILY ONLINE ACTIVITIES SUMMARY**

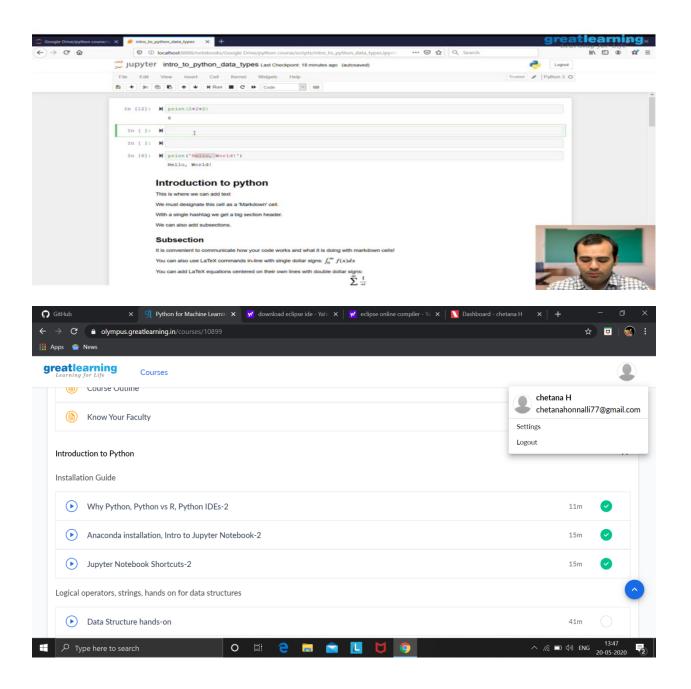
Date:	19-05-2020		Name:	Chetana H		
Sem & Sec	VI A		USN:	4AL17CS021		
		Online T	est Summary	<u>'</u>		
Subject CGV IA Test						
Max. Marks 60			Score	55		
		Certification	Course Sum	mary		
Course Python for Machine learning						
Certificate Provider		GreatLearning	Duration		5hr	
Coding Challenges						
Problem Statement:						
1.Using methods charAt() & length() of String class, write a program to print thefrequency of each character in a string.						
<b>2.</b> 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".						
Status: Completed, executed						
Uploaded the report in Github			Yes	Yes		
If yes Repos	itory nam	e		https://github.com/chetana-H/certification-and- online-coding		
Uploaded th	e report ii	n slack	Yes	Yes		



## **Online Certification Details**

Modules completed:

- -Why python, python vs R,
- -Anaconda installation, Intro to Jupyter Notebook-2
- -Jupiter Notebook Shortcut-2

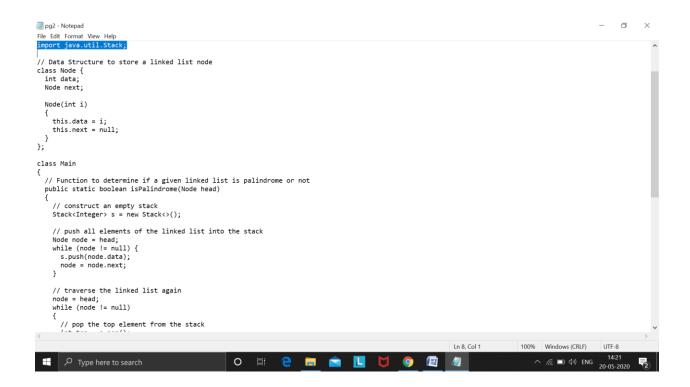


## **Coding Challenge Details**

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

```
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File Edit Format View Help
public class ShortestPalindromeDemo {
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);
{\tt System.out.println("Enter a String to find out shortest palindrome");}\\
String str=in.nextLine();
                                                                                                               Ln 42, Col 1
                                                                                                                                 100% Windows (CRLF)
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                                                                                                                                                        14:12
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      pg111 - Notepad
                                                                                                                                                                    File Edit Format View Help
                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 \n"+shortestPalindrome(str));
      Output:
      Enter a String to find out shortest palindrome
      my name is chetana
      Shortest palindrome of my name is chetana is
      anatehc si eman ymy name is chetana
                                                                                                                       In 42. Col 1
                                                                                                                                         100% Windows (CRLF)
                                                                                                                                                               UTF-8
                                                                                                                                             ^ (/. 🗔 (II) ENG
```

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.



```
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                                                                                                                                                                              o ×
File Edit Format View Help
    // push all elements of the linked list into the stack Node node = head; while (node != null) {
       node = node.next;
     // traverse the linked list again
    node = head;
while (node != null)
    {
// pop the top element from the stack
       int top = s.pop();
       // compare the popped element with current node's data // return false if mismatch happens if (top != node.data) {
      return false;
       // advance to the next node
       node = node.next;
     // we reach here only when the linked list is palindrome
  public static void main(String[] args)
    Node head = new Node(1);
head.next = new Node(2);
     head.next = new Node(3);
  Type here to search
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```

