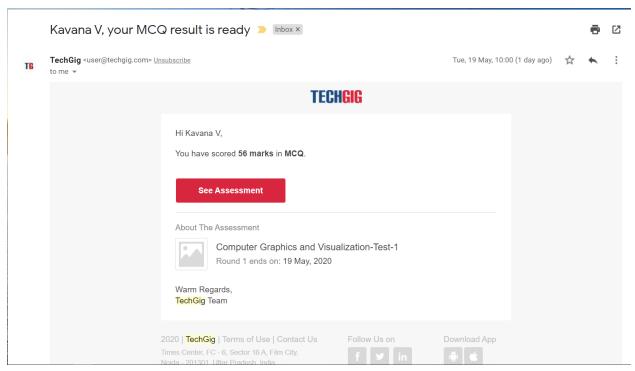
DAILY ONLINE ACTIVITIES SUMMARY

Date:	19-05-2020		Name: Kavana V		a V	
Sem & Sec	VI A		USN:	4AL17CS040		
Online Test Summary						
Subject	CGV IA Test					
Max. Marks	60		Score 56			
Certification Course Summary						
Course	Web De	Web Development with Python and Javascript				
Certificate Provider		Harvard University	Duration 12 we		12 weeks	
Coding Challenges						
Problem Statement:						
1. We have a Letter or a word then we need add some letters to it and need to find out shortest palindrome						
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.						
Status: Completed						
Uploaded the report in Github			Yes			
If yes Repository name			https://github.com/vgkavana/Online- coding-			
Uploaded th	e report i	n slack	Yes			

Online Test Details

CGV TEST Details:



Online Certification Details

Lesson-2

- HTML
- CSS

```
▲ Atom File Edit View Selection Find Packages Window Help
                                                                                         < \(\varphi\) Q □
                                        inheritance.scss
     .success {
          @extend %message;
          background-color: green;
     .warning {
          @extend %message;
          background-color: orange;
     }
     .error {
          @extend %message;
          background-color: red;
inheritance/inheritance.scss 22:23
  1:42:00 / 1:43:26
                                                                         ▶ Speed 1.50x
```

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.

```
import java.util.Stack;
2
3 // Data Structure to store a linked list node
4 class Node {
5
 int data;
6 Node next:
8 Node(int i)
9 {
10 \text{ this.data} = i;
11 this.next = null;
12 }
13 };
14
15 class Main
16 {
17// Function to determine if a given linked list is
18 public static boolean isPalindrome(Node head)
19 {
20 // construct an empty stack
21 Stack<Integer> s = new Stack<>();
22
23 // push all elements of the linked list into the sta
24 Node node = head;
25 while (node != null) {
26 s.push(node.data);
27 node = node.next;
28 }
29
30// traverse the linked list again
31 \text{ node} = \text{head};
32 while (node != null)
33 {
34// pop the top element from the stack
35 int top = s.pop();
36
37// compare the popped element with current node's da
38// return false if mismatch happens
39 if (top != node.data) {
40 return false;
41 }
42
43 // advance to the next node
44 node = node.next;
45 }
```

```
46
47// we reach here only when the linked list is paling
48 return true;
49 }
50
51 public static void main(String[] args)
52 {
53 Node head = new Node(1);
54 head.next = new Node(2);
55 head.next.next = new Node(3);
56 head.next.next.next = new Node(2);
57 head.next.next.next.next = new Node(1);
58
59 if (isPalindrome(head)) {
60 System.out.print("Linked List is a palindrome.");
61} else {
62 System.out.print("Linked List is not a palindrome."
63 }
64 }
65 }
      Terminal
Enter a String to find out shortest palindrom
pubg is a good game
Shortest palindrome of pubg is a good game is
emag doog a si gbupubg is a good game
Process finished.
```

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.Scanner;
3
  public class ShortestPalindromeDemo {
 public static String shortestPalindrome(String str)
9 int y=str.length()-1;
11 \text{ while}(y \ge 0)
12 if(str.charAt(x)==str.charAt(y)){
13 x++;
14 }
15 y--;
16 }
17
18 if(x==str.length())
19 return str;
20
21 String suffix = str.substring(x);
22 String prefix = new StringBuilder(suffix).reverse()
23 String mid = shortestPalindrome(str.substring(0, x)
24
25 return prefix+mid+suffix;
26 }
28 public static void main(String[] args)
29 {
30
31 Scanner in = new Scanner(System.in);
32
33 System.out.println("Enter a String to find out shor
35 String str=in.nextLine();
36
37 System.out.println("Shortest palindrome of "+str+"
38
39 }
40 }
```

