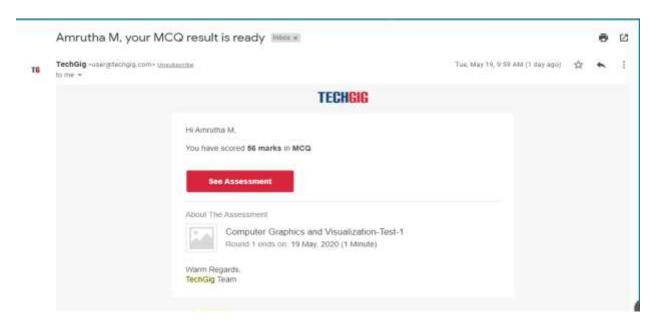
DAILY ONLINE ACTIVITIES SUMMARY

Date:	19/05/2020		Name:	Amrutha M	
Sem & Sec	6th sem & A sec		USN:	4AL17CS005	
		Online Tes	t Summary		
Subject	CGV	CGV IA Test			
Max. Marks	60		Score 56		
Certification Course Summary					
Course Introduction to Full Stack Development					
Certificate Provider		Great Learning	Duration		1.5 hr(spent by me on that day to learn)
Coding Challenges					
Problem Statement:					
1. Java code to find shortest palindrome for the given string.					
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 th	e report i	n Github	Yes		
If yes Repository name			https://github.com/Amrutha-M/Online-Coding		
Uploaded th	e report i	n slack	Yes		

Online Test Details

CGV TEST Details:



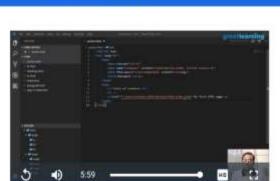
Online Certification Details

Lessons completed:

- 1. Heading Tag
- 2. Hr and Br Tags
- 3. Anchor Tags
- 4. Absolute and relative path
- 5. Link it Online



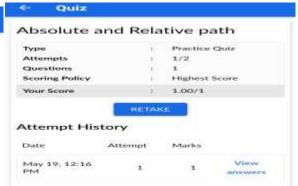




8. Anchor Tag

+









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.Scanner;
public class ShortestPalindromeDemo {
  public static String shortestPalindrome(String str)
  int x=0;
  int y=str.length()-1;
  int imple(y>=0){
  int if(str.charAt(x)==str.charAt(y)){
    int x=0;
    int y=str.length())
    int y=str.le
```

```
Enter a String to find out shortest palindrom amrutha is a good girl Shortest palindrome of amrutha is a good girl Irig doog a si ahturmamrutha is a good girl 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.Stack;
    // Data Structure to store a linked list node
   Node next;
   Node(Int 1)
    {
this.data = i;
this.next = null;
                                                                                          * Terminal
                                                                                                                                 п
 2);
  5 class Main
 6 {
7 // Function to determine if a given linked list is
8 public static boolean isPalindrome(Node head)
  9 {
0 // construct an empty stack
1 Stack<Integer> s = new Stack<>();
  3// push all elements of the linked list into the st
4 Node node = head;
  5 while (node != nul
6 s.push(node.data);
  node = node.next;
 31 node = head;
32 while (node != null)
33 {
34 // pop the top element from the stack
35 int top = s.pop();
 37// compare the popped element with current node's d.
38// return false if mismatch happens
39if (top != node.data) {
40 return false;
43 // advance to the next node
44 node = node.next;
47// we reach here only when the linked list is paling
49 }
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);
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 }
```