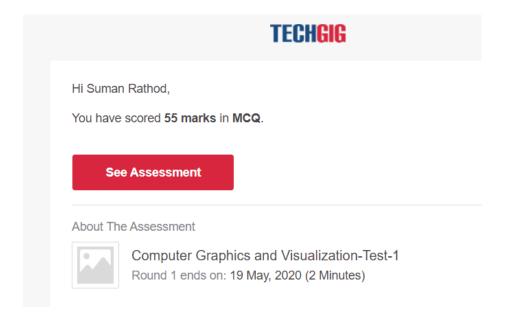
## **DAILY ONLINE ACTIVITIES SUMMARY**

Date:	19/05/2020		Name:	SUMAN RATHOD		
Sem & Sec	6th sem & B sec		USN:	4AL17CS115		
Online Test Summary						
Subject	CGV	IA Test				
Max. Mark	60		Score	55		
Certification Course Summary						
Course	Introd	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 the report in Github			Yes			
If yes Repository name			https://github.com/SumanRathod009/onlinecoding			
Uploaded the report in slack			Yes			

## **Online Test Details** CGV

## TEST Details:

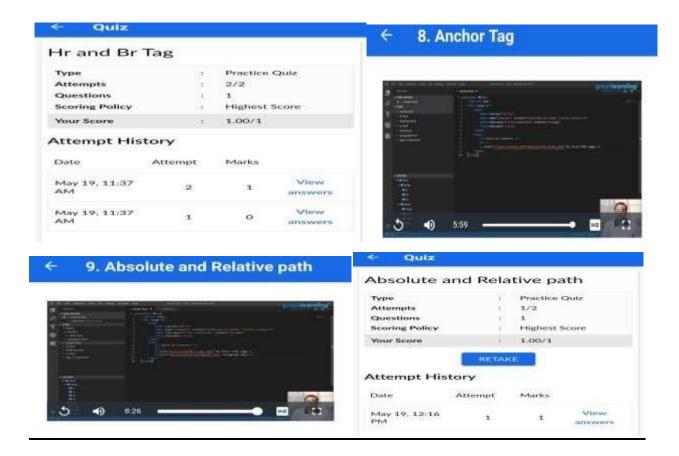


## **Online Certification Details**

Lessons completed:

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







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;

while(y>=0){
  if(str.charAt(x)==str.charAt(y)){
  if(str.charAt(x)=str.charAt(y)){
  if(str.charAt(x)=str.charAt(y)){
  if(str.charAt(x)=str.charAt(y)){
  if(str.charAt(x)=str.charAt(y)){
  if(str.charAt(x)=str.charAt(y)){
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  if(str.charAt(x)=str.charAt(y)){
  if(str.charAt(x)=str.charAt(y)){
  if(str.charAt(x)=str.charAt(y)){
  if(str.ch
```



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 class Node {
    Node next;
9 {
10 fhis.data = 1;
11 this.next = null;
12 }
13 };
14
                                                                                            × Terminal
 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 = now Stack<>();
23 // push all elements of the linked list into the st. 24 Node node = head; 25 While (node != mull) { 26 s.push(node.data); 27 node = node.next; 28 }
 29
30 // traverse the linked list again
31 node = 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 d.
38// return false if mismatch happens
39 if (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
48 return true;
49 }
50
 51 public static void main(String[] args)
 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.");
 62 System.out.print("Linked List is not a palindrome
 63 }
 64}
 65 }
```