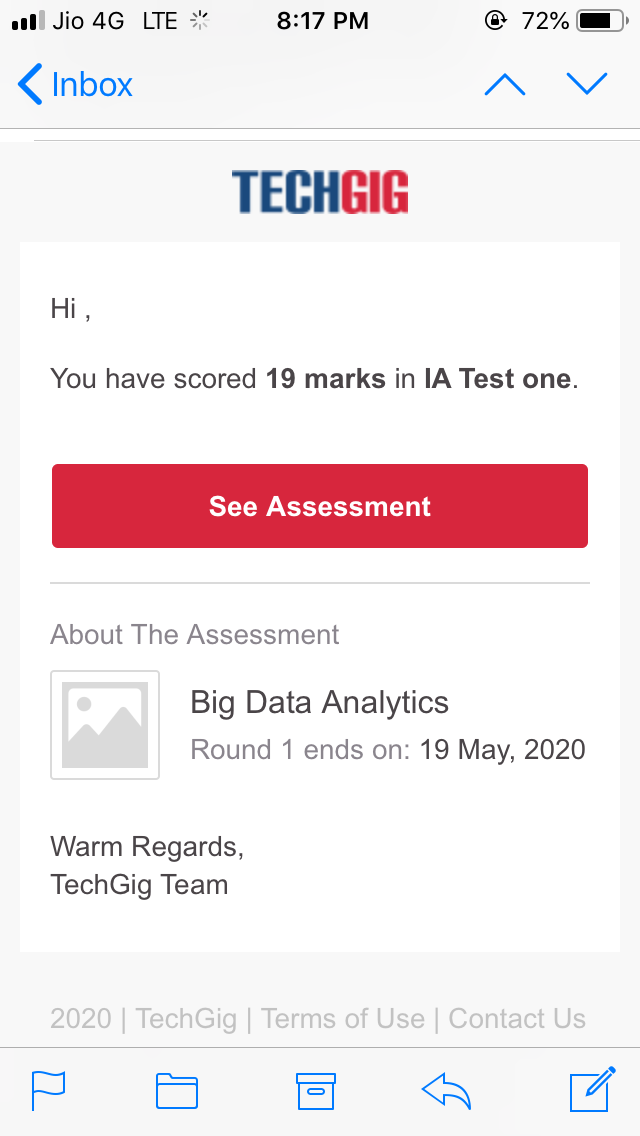
**DAILY ONLINE ACTIVITIES SUMMARY**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Date:** | **19/05/2020** | | | | **Name:** | **Suhas p shetty** | |
| **Sem & Sec** | **8th B** | | | | **USN:** | **4AL16CS080** | |
| Online Test Summary | | | | | | | |
| **Subject** | | **BDA** | | | | | |
| **Max. Marks** | | **30** | | **Score** | | **19** | |
| Certification Course Summary | | | | | | | |
| **Course** | **AWS** | | | | | | |
| **Certificate Provider** | | | **AMAZON TRAINING** | **Duration** | | | **30 Mins** |
| Coding Challenges | | | | | | | |
| **Problem Statement:**  **prob1- To add some letters for a given word or letter then to find the shortest palindrome possible**  **Prob2- To check whether the given linked list is palindrome or not** | | | | | | | |
| **Status:Completed** | | | | | | | |
| **Uploaded the report in Github** | | | | **Yes** | | | |
| **If yes Repository name** | | | | **Online certification course** | | | |
| **Uploaded the report in slack** | | | | **Yes** | | | |

Online Test Details:





Coding Challenges Details:

Program 1 :

package shortestpalindromeexample.java;

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)){

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));

}

Program 2 :

import java.util.Stack;

class Node {

int data;

Node next;

Node(int i)

{ this.data = i;

this.next = null;

} }; class Main

{ public static boolean isPalindrome(Node head)

{ Stack s = new Stack<>();

Node node = head; // push

while (node != null) {

s.push(node.data);

node = node.next;

} node = head;

while (node != null)

{ int top = s.pop(); //pop

if (top != node.data) {

return false;

} node = node.next;

} return true;

} public static void main(String[] args)

{ Node head = new Node(1);

head.next = new Node(2);

head.next.next = new Node(3);

head.next.next.next = new Node(2);

head.next.next.next.next = new Node(1);

if (isPalindrome(head)) {

System.out.print("Linked List is a palindrome.");

} else {

System.out.print("Linked List is not a palindrome.");

} }