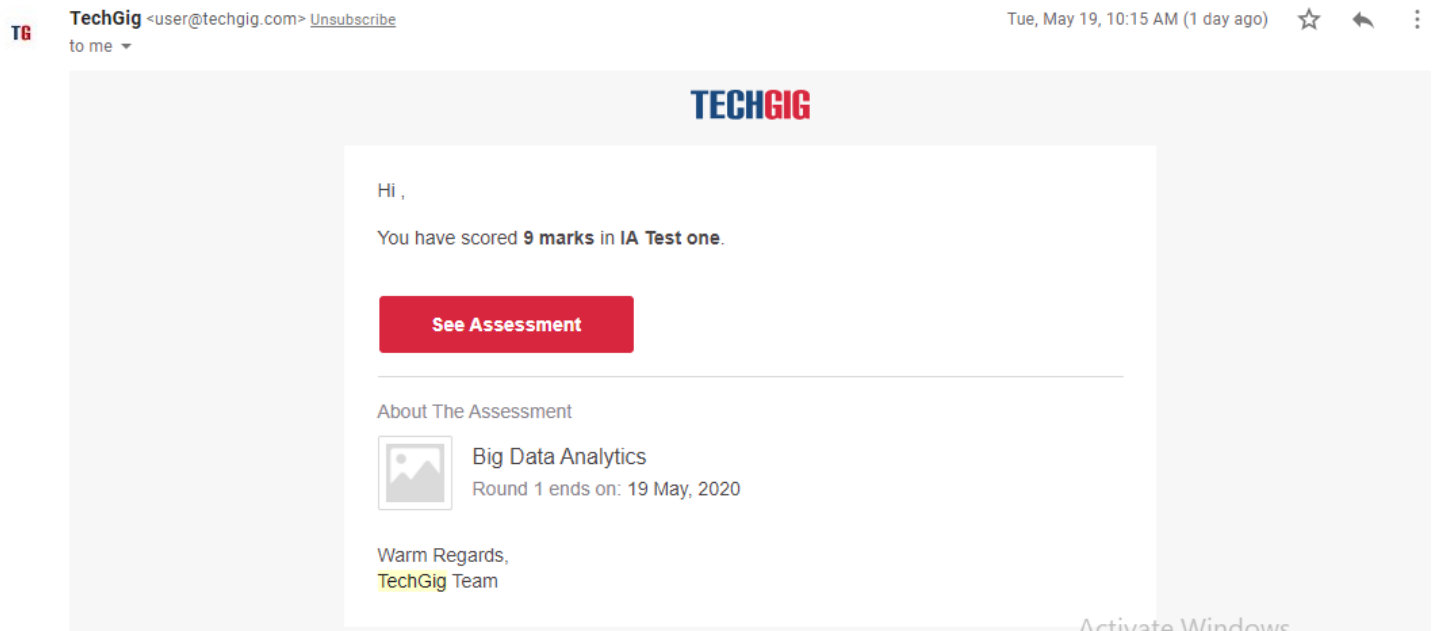


DAILY ONLINE ACTIVITIES SUMMARY

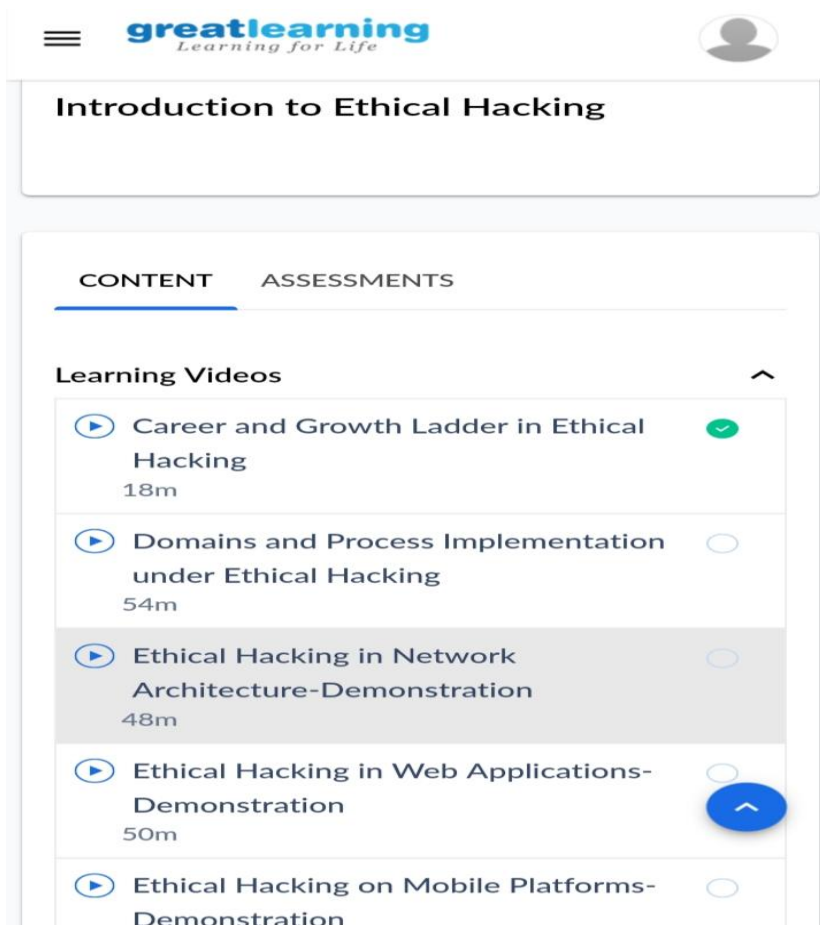
Date:	19/05/2020	Name:	Prathiksha
Sem & Sec	8 th sem & B sec	USN:	4AL16CS070
Online Test Summary			
Subject	Big Data Analytics(BDA)		
Max. Marks	30	Score	9
Certification Course Summary			
Course	Introduction To Ethical Hacking		
Certificate Provider	Great Learning Academy	Duration	6hrs
Coding Challenges			
Problem Statement: 1. Find out what will be shortest palindrome string. 2. Write a simple code to identify given linked list is palindrome or not by using stack.			
Status: Solved			
Uploaded the report in Github		Yes	
If yes Repository name		Online coding challenges	
Uploaded the report in slack		Yes	

Online Test Details:



IA1 portion was Module 1.

Certification Course Details:



Topic : Introduction to Ethical Hacking

Coding Challenges Details:

Program 1:

```
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; while (node != null) {    s.push(node.data);    node = node.next; }
        node = head; while (node != null) {    int top = s.pop(); if (top != node.data) {
            return false;    } node = node.next; }
    }

    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."); }
}
}
```