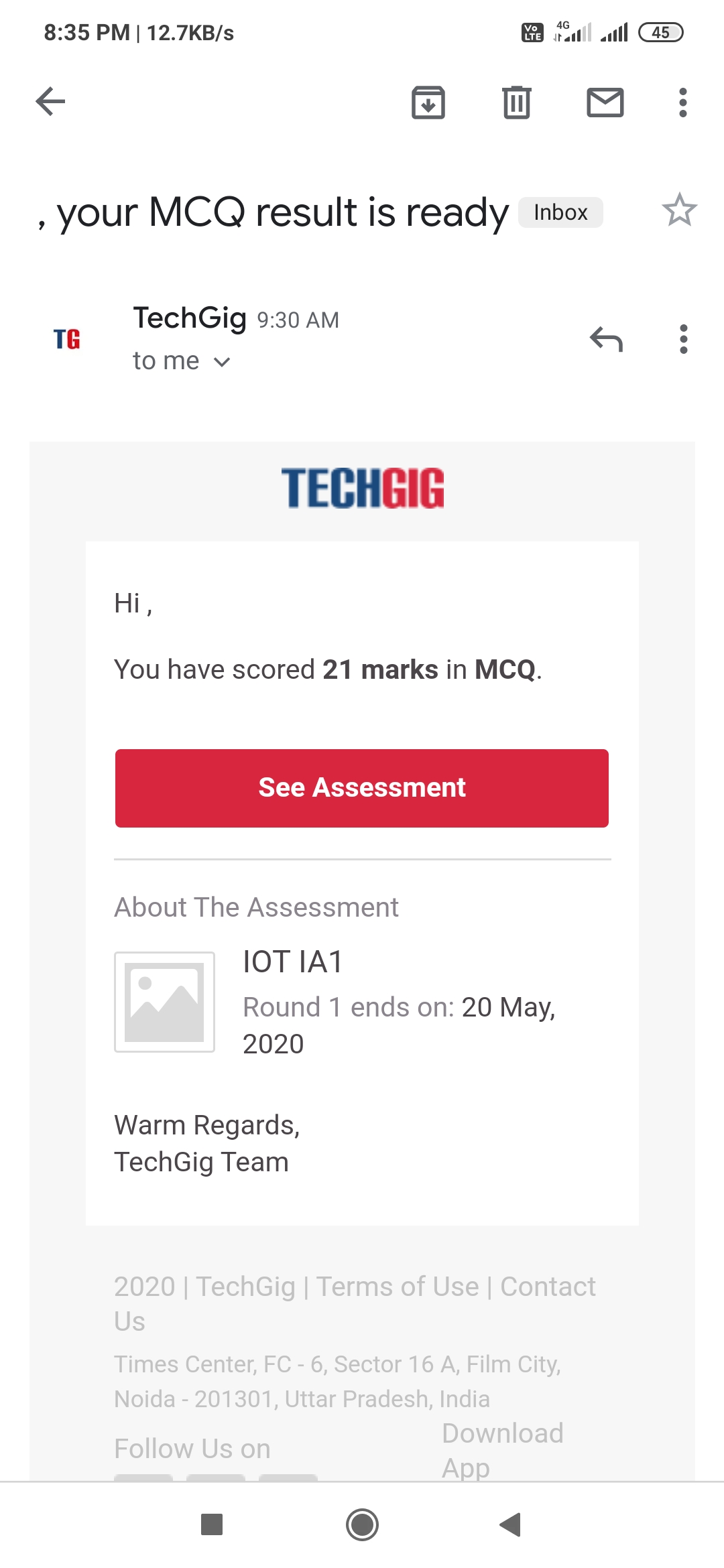
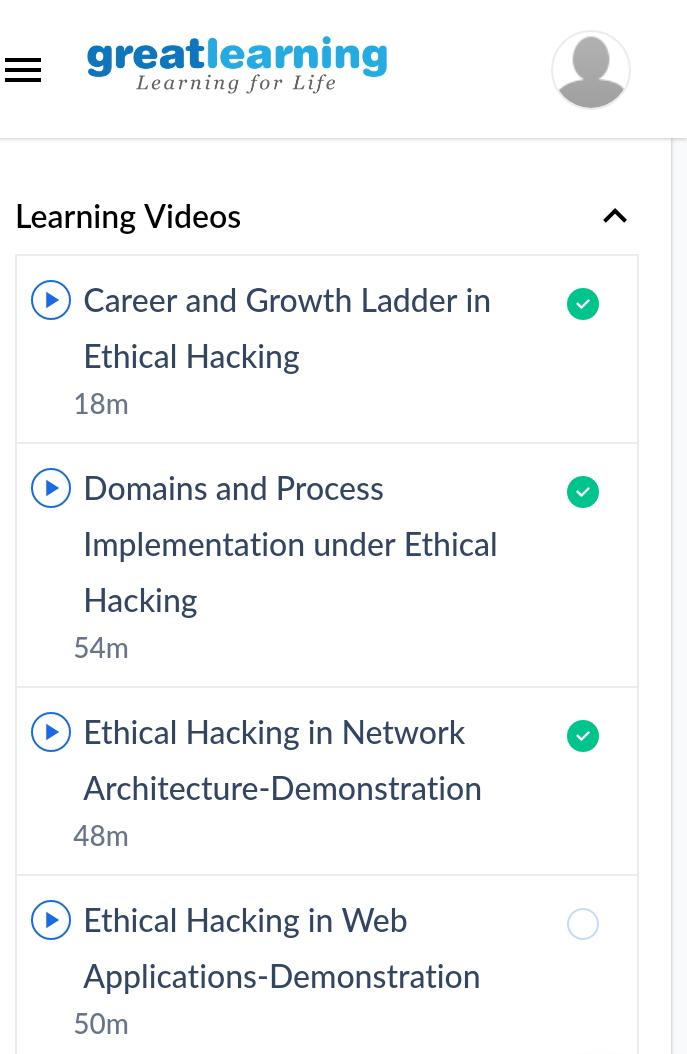
**DAILY ONLINE ACTIVITIES SUMMARY**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Date:** | **20/05/20** | | | | **Name:** | **Huda Sultana** | |
| **Sem & Sec** | **VIII A** | | | | **USN:** | **4AL16CS039** | |
| Online Test Summary | | | | | | | |
| **Subject** | | **Internet of Things** | | | | | |
| **Max. Marks** | | **30** | | **Score** | | **21** | |
| Certification Course Summary | | | | | | | |
| **Course** | **Introduction to Ethical Hacking** | | | | | | |
| **Certificate Provider** | | | **Great Learner Acdemy** | **Duration** | | | **6 Hours** |
| Coding Challenges | | | | | | | |
| **Problem Statement: 1. Java program to count the occurance of letters in a given string**  **2. Python program to check whether the given number is an Amstrong number** | | | | | | | |
| **Status: Solved** | | | | | | | |
| **Uploaded the report in Github** | | | | **Yes** | | | |
| **If yes Repository name** | | | | **Hudasulltana/online\_certificate**  **Hudasulltana/online\_coding** | | | |
| **Uploaded the report in slack** | | | | **Yes** | | | |





Program

import java.util.Stack;

// Data Structure to store a linked list node

class Node {

int data;

Node next;

Node(int i)

{

this.data = i;

this.next = null;

}

};

class Main

{

// Function to determine if a given linked list is palindrome or not

public static boolean isPalindrome(Node head)

{

// construct an empty stack

Stack<Integer> s = new Stack<>();

// push all elements of the linked list into the stack

Node node = head;

while (node != null) {

s.push(node.data);

node = node.next;

}

// traverse the linked list again

node = head;

while (node != null)

{

// pop the top element from the stack

int top = s.pop();

// compare the popped element with current node's data

// return false if mismatch happens

if (top != node.data) {

return false;

}

// advance to the next node

node = node.next;

}

// we reach here only when the linked list is palindrome

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.");

}

}

}