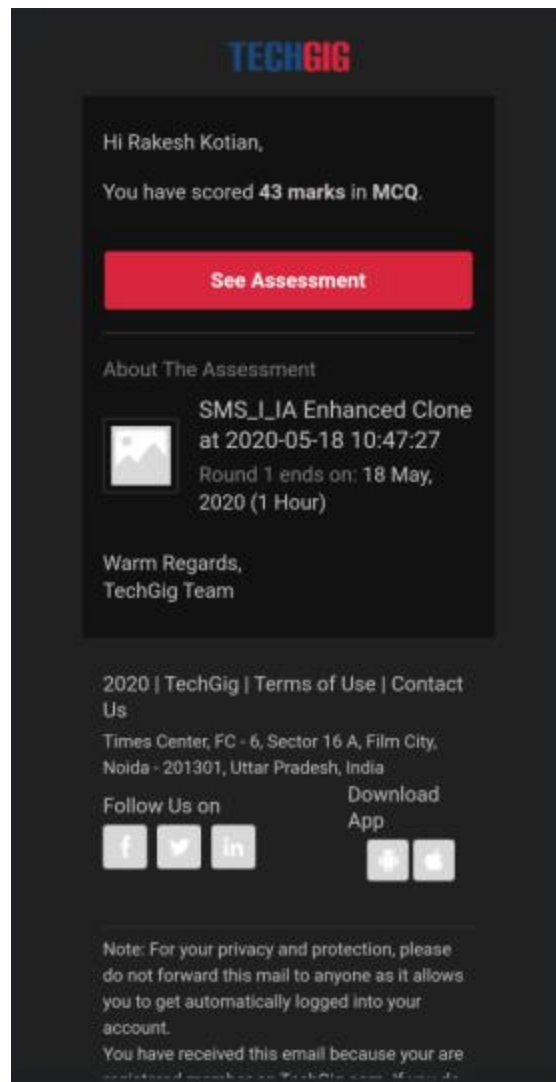


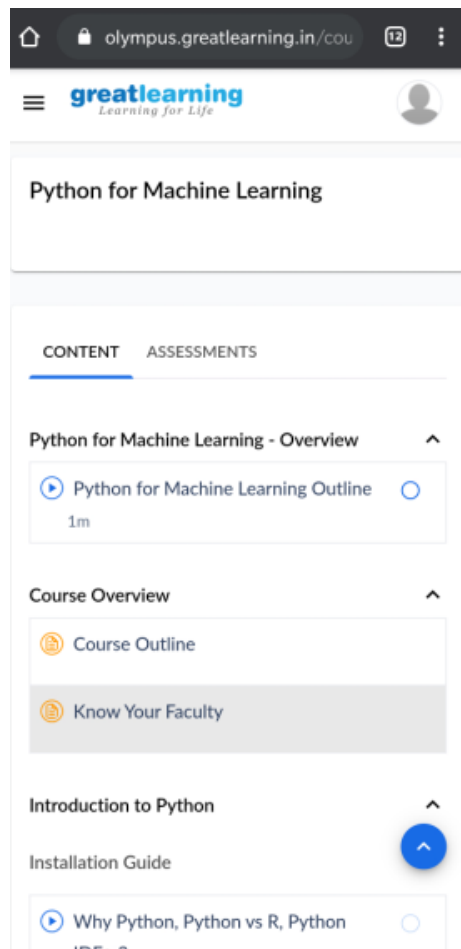
DAILY ONLINE ACTIVITIES SUMMARY

Date:	20-05-2020	Name:	Rakesh M Kotian
Sem & Sec	8 th sec-b	USN:	R4al16cs072
Online Test Summary			
Subject	sms		
Max. Marks	30	Score	43
Certification Course Summary			
Course	Python for machine learning		
Certificate Provider	Great learning	Duration	6 hours
Coding Challenges			
Problem Statement: 1.to add some letter for a given word or letter then to find shortest palindrome 2.to check whether the given linked list is palindrome or not			
Status:solved			
Uploaded the report in Github		yes	
If yes Repository name		Rakeshkotian08	
Uploaded the report in slack		yes	

Online Test Details: (Attach the snapshot and briefly write the report for the same)



Certification Course Details: (Attach the snapshot and briefly write the report for the same)



Coding Challenges Details: (Attach the snapshot and briefly write the report for the same)

```

Prog1:
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.c
        harAt(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));
}

```

Prog 2:

```

import java.util.Stack;
class Node {
int data;
Node next;
Node(int i)
{
his.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;
}
// traverse 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.");
}}
```