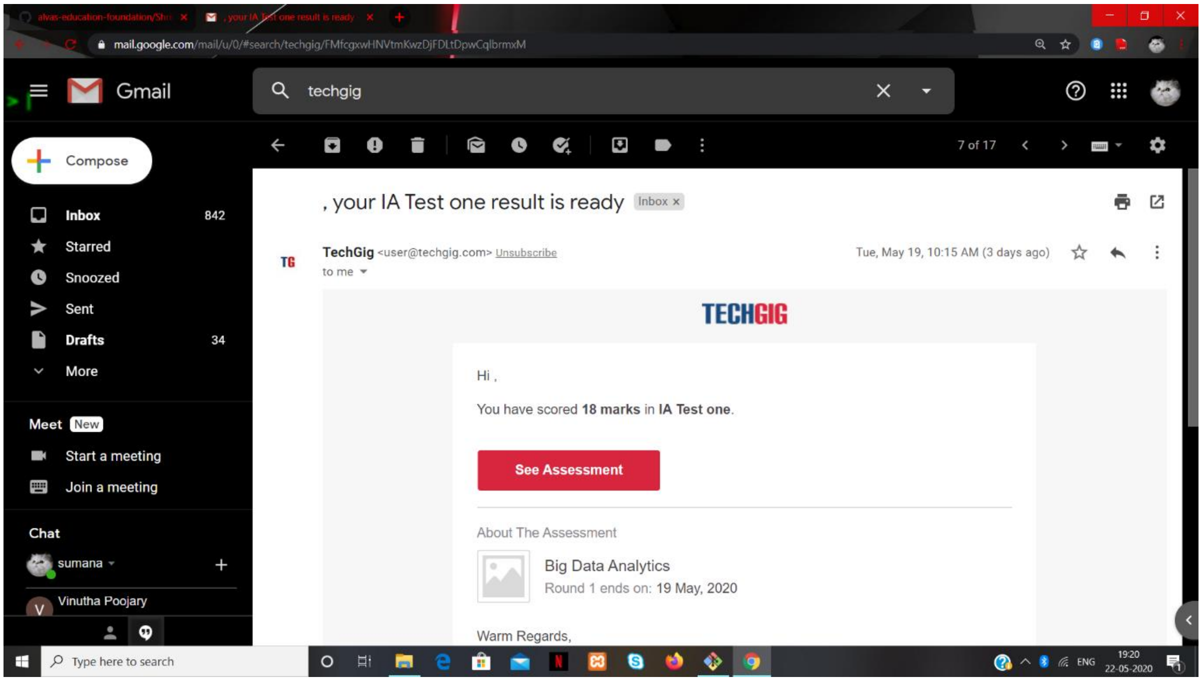
DAILY ONLINE ACTIVITIES SUMMARY

Date:	19/5/2020	Name:	Sumana
Sem & Sec	8th Sem B	USN:	4AL16CS107
Online Test Summary			
Subject	Big Data Analytics		
Max. Marks	30	Score	18
Certification Course Summary			
Course	Introduction to Ethical Hacking		
Certificate Provider	greatlearning.in	Duration	6 hrs
Coding Challenges			
Problem Statement: To add some letters for a given word or letter then to find the shortest palindrome possible To check whether the given linked list is palindrome or not			
Status: Completed			
Uploaded the report in Github	Yes		
If yes Repository name	Alvas-education-foundation/Sumana		
Uploaded the report in slack	yes		

Online Test Details:



, your IA Test one result is ready Inbox ×

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Tue, May 19, 10:15 AM (3 days ago)

TECHGIG

Hi ,

You have scored **18 marks** in **IA Test one**.

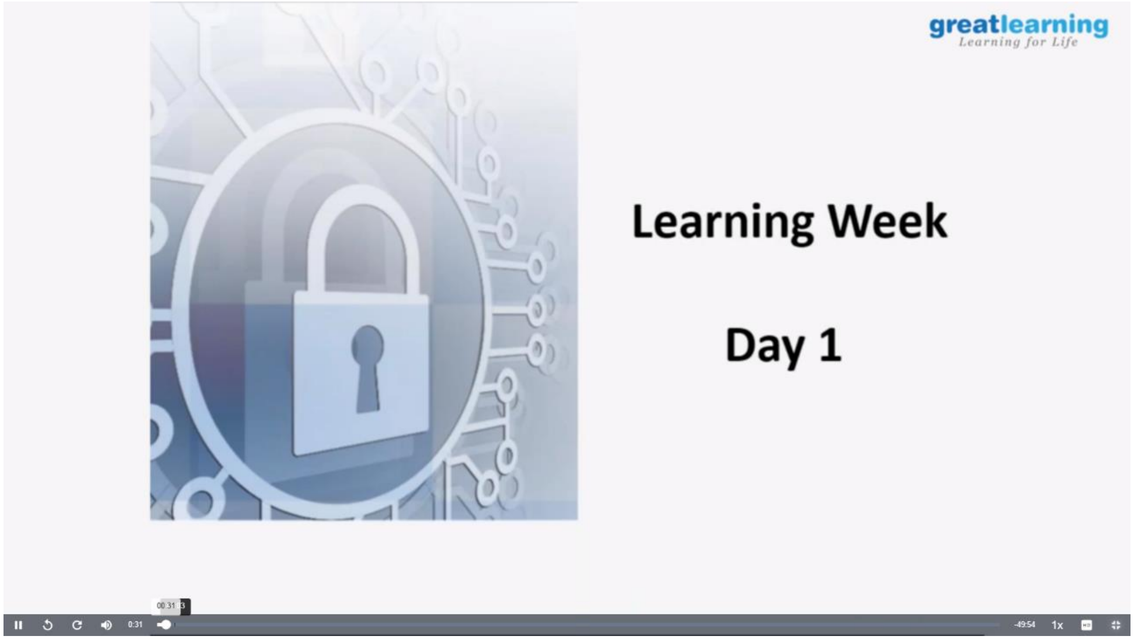
See Assessment

About The Assessment

Big Data Analytics
Round 1 ends on: 19 May, 2020

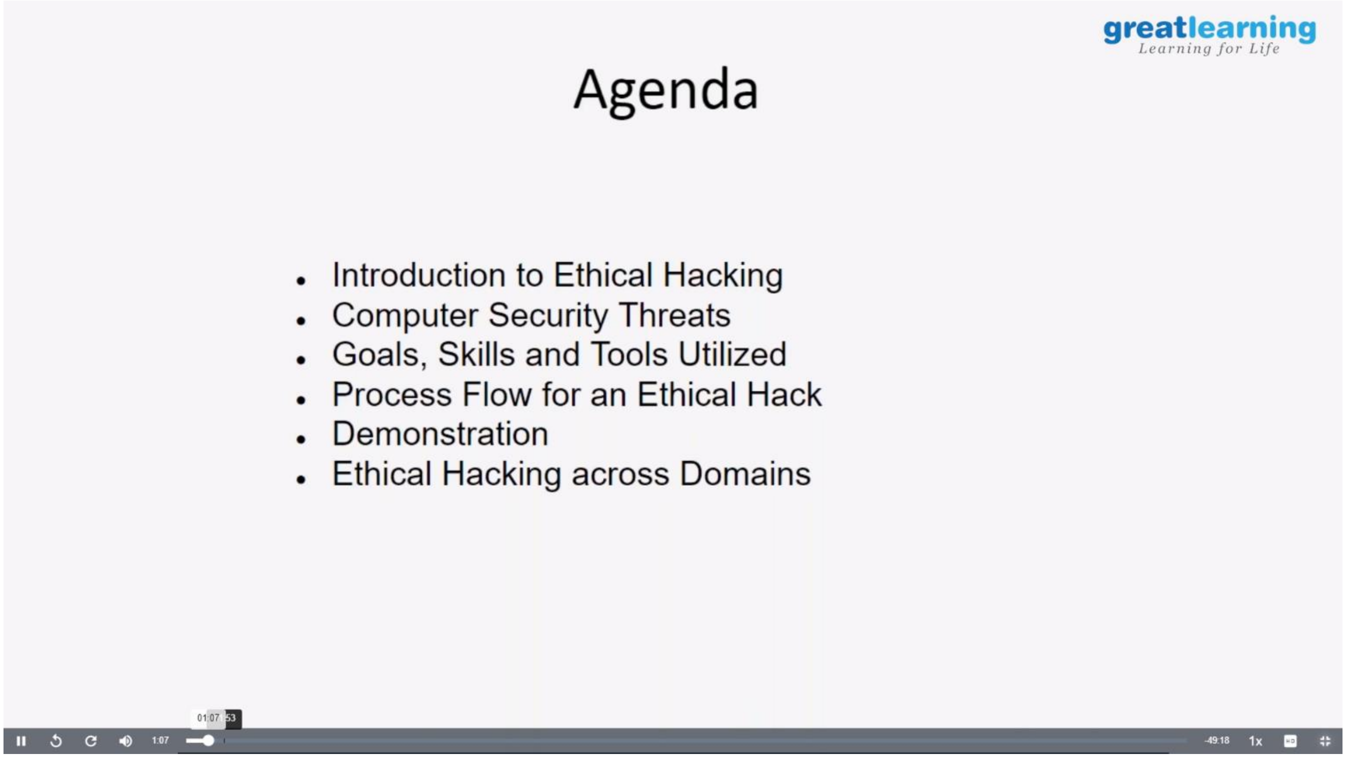
Warm Regards,

Certification Course Details:



Learning Week

Day 1



Agenda

- Introduction to Ethical Hacking
- Computer Security Threats
- Goals, Skills and Tools Utilized
- Process Flow for an Ethical Hack
- Demonstration
- Ethical Hacking across Domains

Coding Challenges Details:

C program to implement various operations of SLL Stack :

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.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)
 {
 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;

}

 // 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.");

}

 }

 }
```