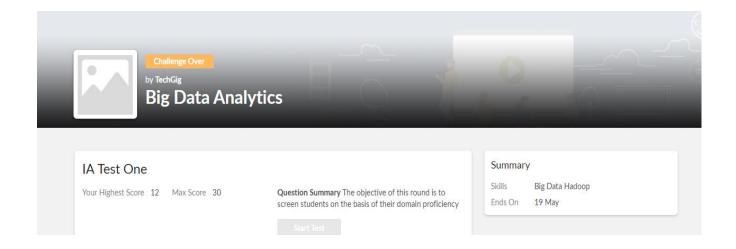
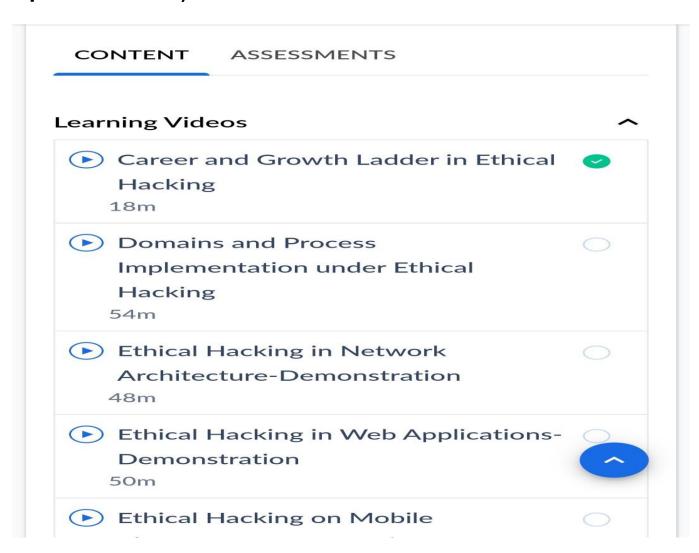
DAILY ONLINE ACTIVITIES SUMMARY

Date:	19/5/2020		Name:	Vleena Mascarenhas		
Sem & Sec 8 th & B		USN:	4AL16CS121			
Bem & Bee	n & Sec 6 & B		0511.	4ALIOCSIZI		
Online Test Summary						
Subject Big Data Analytics						
Max. Marks 30			Score 12			
Certification Course Summary						
Course	Introduct	Introduction to Ethical Hacking				
Certificate Provider		Great learning academy	Duration		6hrs	
Coding Challenges						
Problem Statement: 1.To find 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			vleena			
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)

```
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));
}
2.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 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 = new Node(1);
       if (isPalindrome(head)) {
              System.out.print("Linked List is a palindrome.");
       } else {
              System.out.print("Linked List is not a palindrome.");
       }
}
}
```