DAILY ONLINE ACTIVITIES SUMMARY

Date:	**19/05/2020**	**Name:**	**KIRAN K**
Sem & Sec	**8th A**	**USN:**	**4AL16CS046**

Online Test Summary

Subject	**BDA**		
Max. Marks	**30**	**Score**	**19**

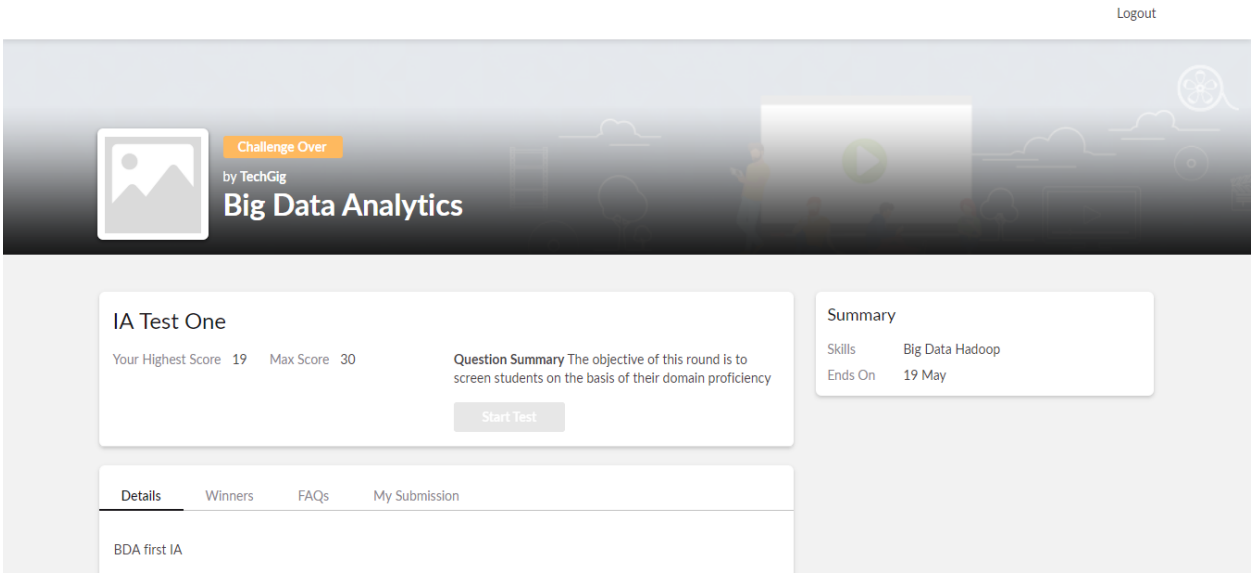
Certification Course Summary

Course	**Introduction To Hadoop**		
Certificate Provider	**GreatLearning**	**Duration**	**29 mins**

Coding Challenges

Problem Statement:	
Status: Completed	
Uploaded the report in Github	**yes**
If yes Repository name	**KiranK27751**
Uploaded the report in slack	**yes**

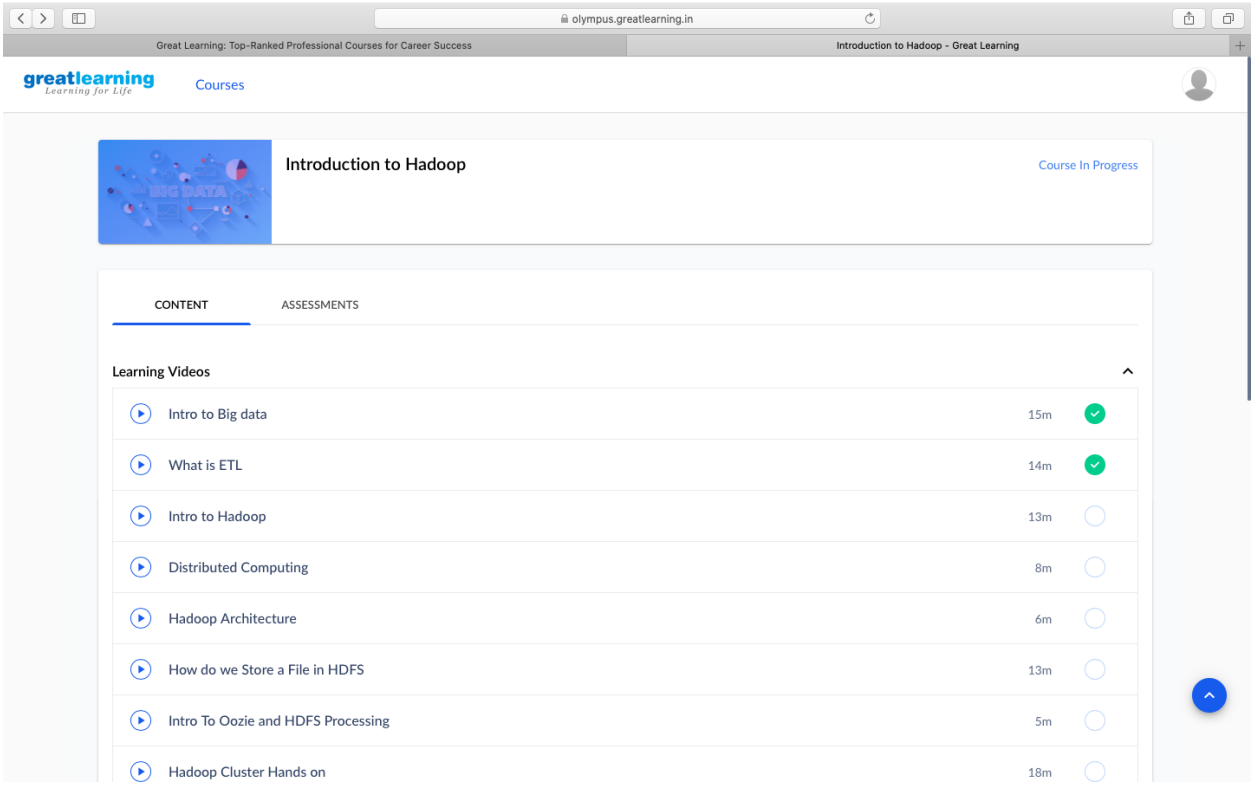
Online Test Details:



Certification Course Details:

Organizations can optimize IoT data, quickly and cost-effectively deriving its business value by developing expertise in ETL (extract, transfer, load) technologies, such as stream processing and data lakes.

At many organizations, though, this may lead to IT bottlenecks, long project delays, and data science being deferred. Result: IoT projects – in which predictive analytics data is meant to play a critical role in improving operational efficiency and spurring innovation – *still* haven't crossed the proof-of-concept threshold and definitely cannot demonstrate ROI.



Coding Challenges Details:

program1:

```
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));

}
```

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)
{
// construct an empty stack
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;
          }

          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.");
          }
}
}
```