DAILY ONLINE ACTIVITIES SUMMARY

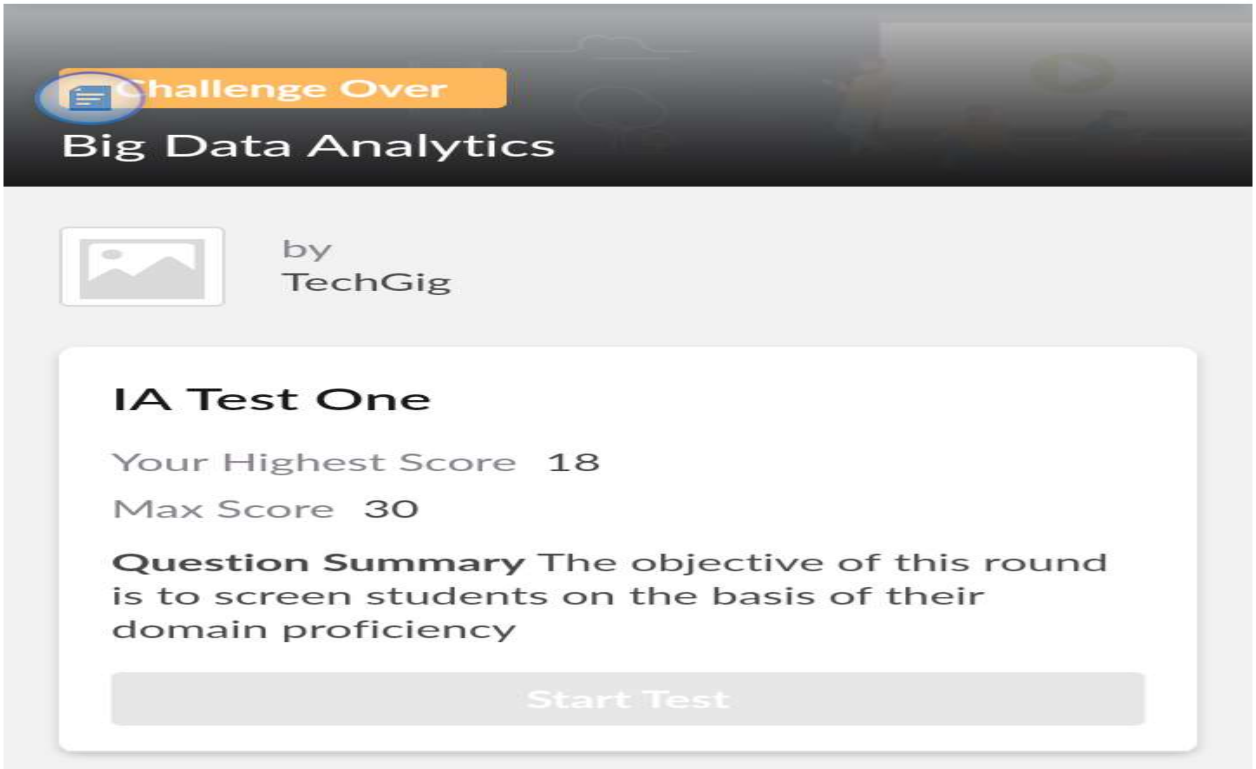
Date:	**19-5-2020**	**Name:**	**Prajna**
Sem & Sec	**8th sem ‘B’**	**USN:**	**4AL16CS067**
Online Test Summary			
Subject	**BDA**		
Max. Marks	**30**	**Score**	**18**
Certification Course Summary			
Course	**Getting started: Hadoop**		
Certificate Provider	**Great Learning**	**Duration**	**40min**
Coding Challenges			
Problem Statement:1.Write a program to find the shortest palindrome using linked list. 2.Write a java program to find the linked list is palindrome or not			
Status: Completed			
Uploaded the report in GitHub GitHub link:	**Yes https://github.com/4al16cs067/onlineactivitesreport**		
If yes Repository name	**onlineactivitiesreport**		
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)online test



Big Data Analytics

by
TechGig

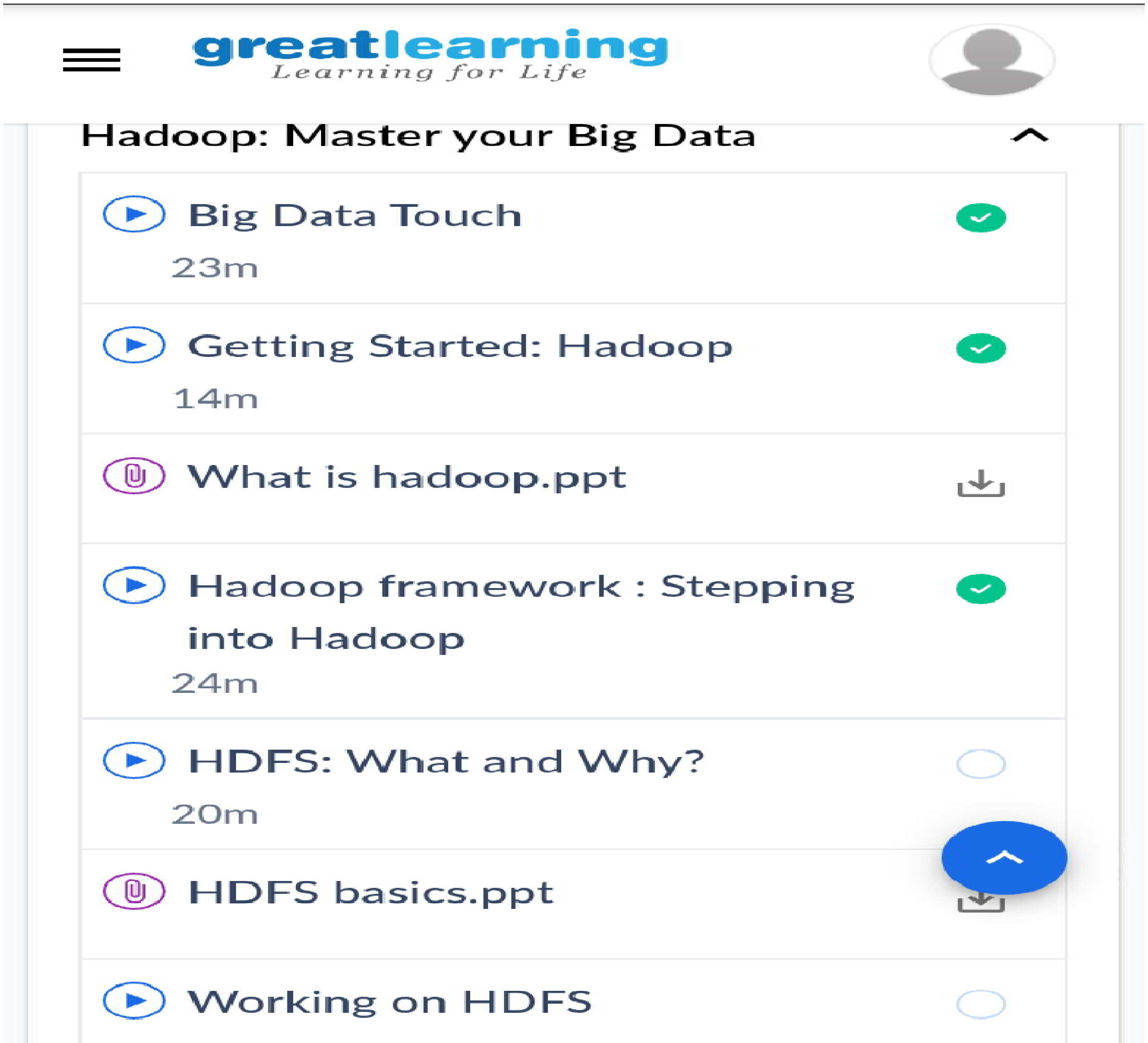
IA Test One

Your Highest Score 18

Max Score 30

Question Summary The objective of this round is to screen students on the basis of their domain proficiency

2) certification course



Hadoop: Master your Big Data

- Big Data Touch 23m ✓
- Getting Started: Hadoop 14m ✓
- What is hadoop.ppt
- Hadoop framework : Stepping into Hadoop 24m ✓
- HDFS: What and Why? 20m ○
- HDFS basics.ppt
- Working on HDFS ○

3) coding challenges

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
{
// 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.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.");
}
}
```