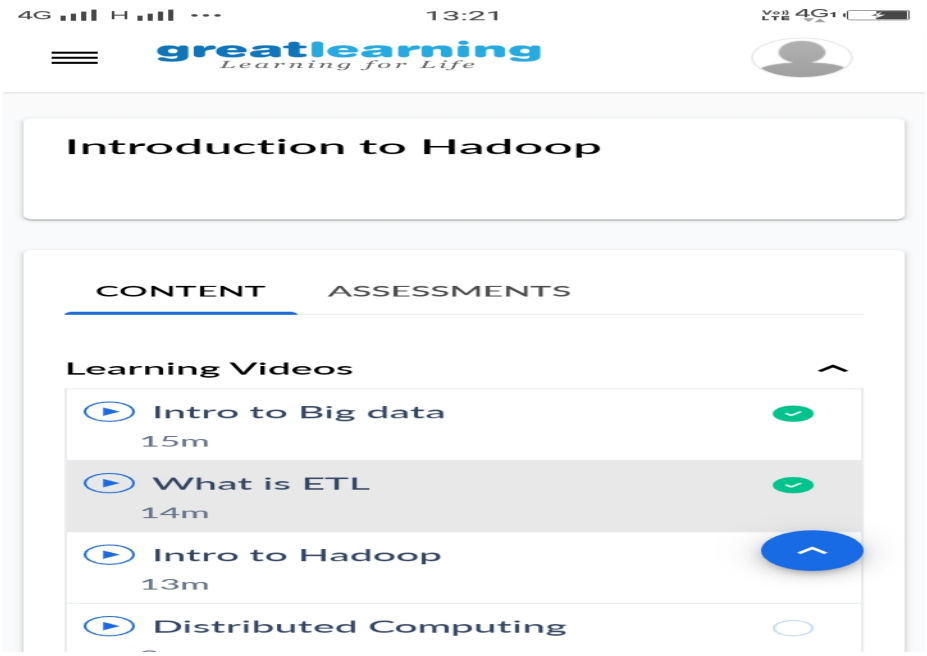
DAILY ONLINE ACTIVITIES SUMMARY

Date:	**19-05-2020**	**Name:**	**Vaibhavi**
Sem & Sec	**8th sem B sec**	**USN:**	**4al16cs115**
Online Test Summary			
Subject	**BDA**		
Max. Marks	**30**	**Score**	**21**
Certification Course Summary			
Course	**Introduction to hadoop**		
Certificate Provider	**Great learning website**	**Duration**	**9.45-10.15**
Coding Challenges			
Problem Statement: java coding problem			
Status: completed			
Uploaded the report in Github		**yes**	
If yes Repository name		**Cse final year 2019-20**	
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)

Saw videos related to Hadoop n introduction was given to haddop about using Hadoop



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

Coding was given n it was uploaded for github and slack

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));

}
```
[2:59 PM, 5/19/2020] E Vaibhavi: PROGRAM 2

```
mport 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.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.");
        }
}
```