DAILY ONLINE ACTIVITIES SUMMARY

Date:	**19-05-2020**	**Name:**	**Anvitha Poojary**
Sem & Sec	**6th sem & A sec**	**USN:**	**4AL17CS008**

Online Test Summary

Subject	**CGV**		
Max. Marks	**60**	**Score**	**55**

Certification Course Summary

Course	**Front end development-HTML**		
Certificate Provider	**greatlearning**	**Duration**	**3:30hr**

Coding Challenges

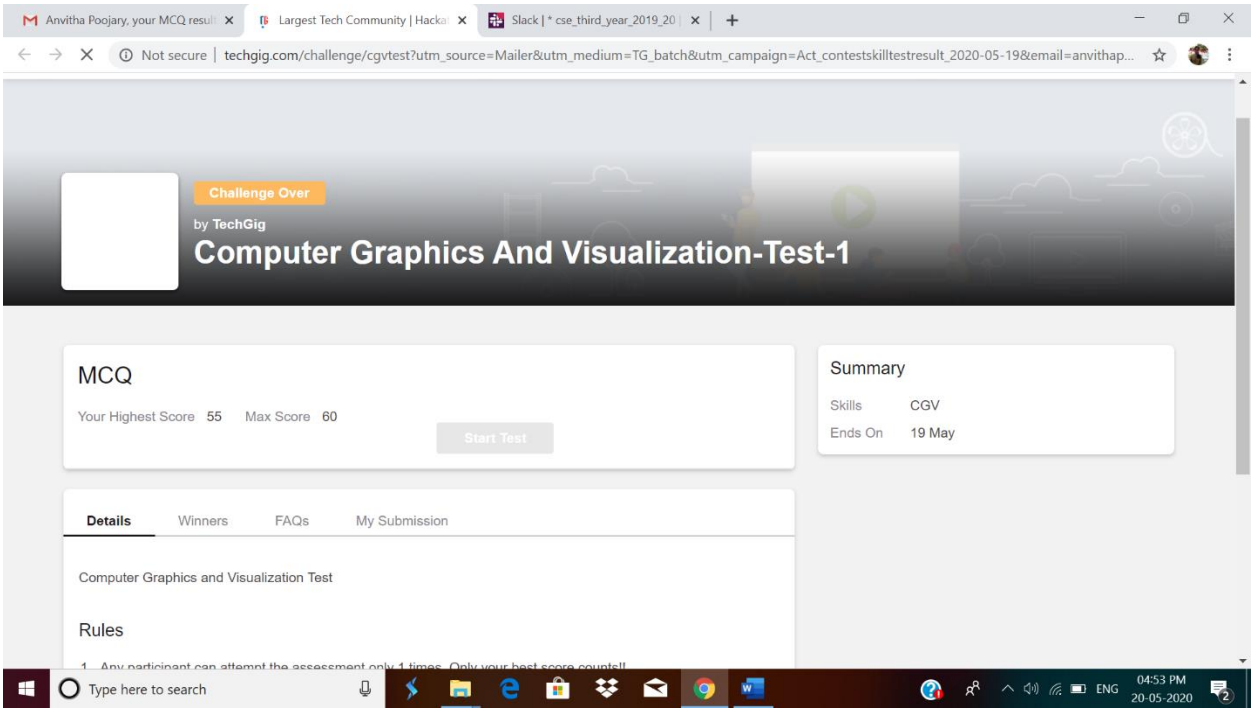
Problem Statement:

1. To find if one of the strings is a sub sequence of the other.
2. **Palindrome program**

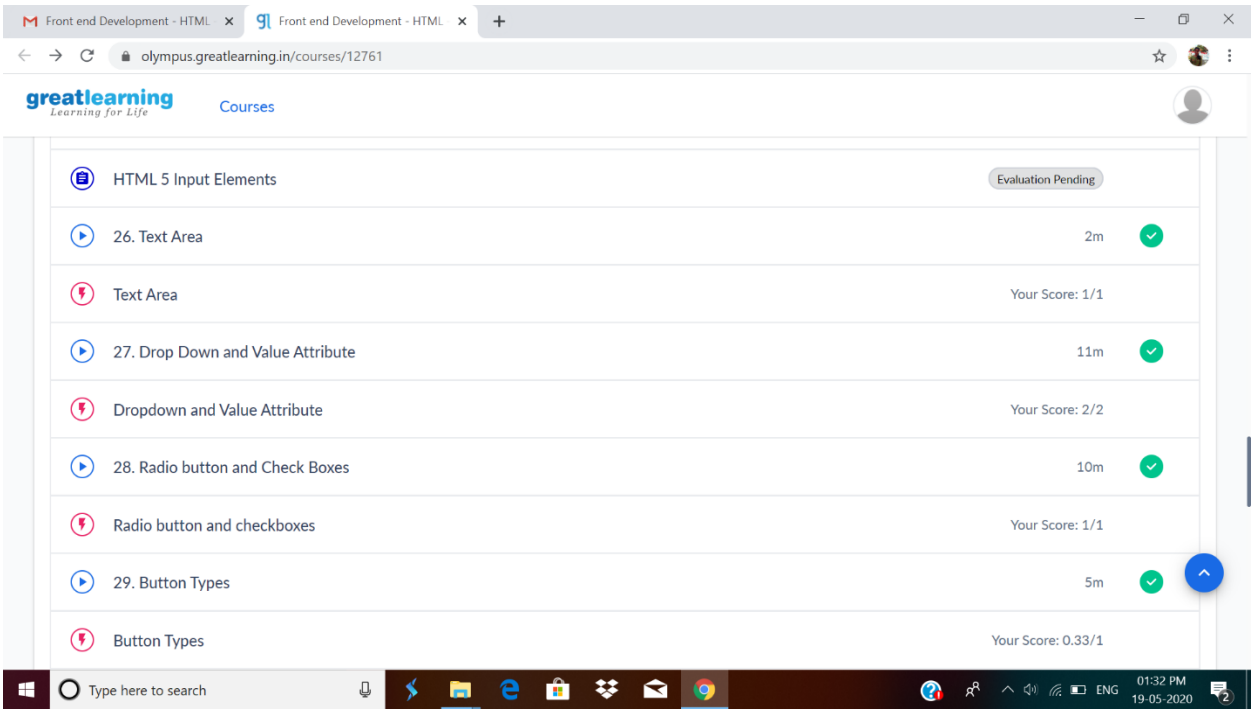
Status: completed

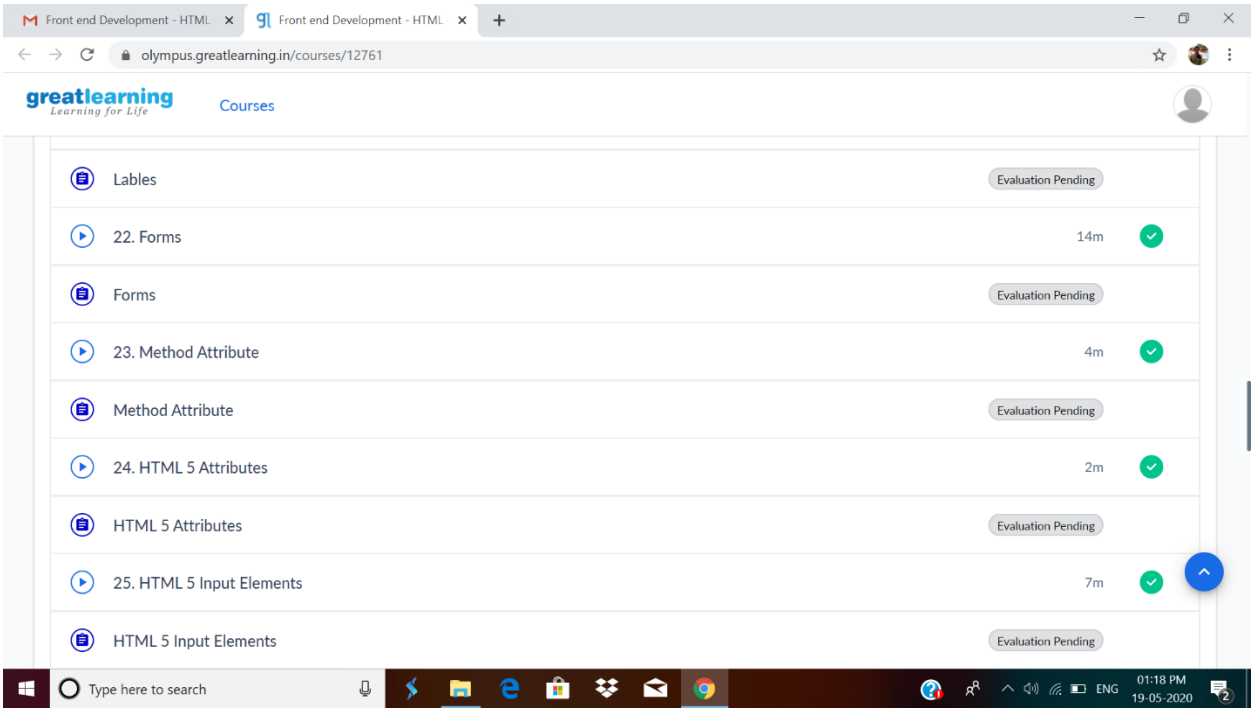
Uploaded the report in Github	**yes**
If yes Repository name	https://github.com/anvithapo99/Daily-Report
Uploaded the report in slack	**yes**

Online test details:



Certification course details:





Coding challenges details:

A user will input two strings, and we find if one of the strings is a sub sequence of the other. Program prints “yes” if either the first string is a sub sequence of the second string or the second string is a sub sequence of the first string.

Assume that, the length of the first string is smaller than or equal to the length of the second string.

An expected output of the program:

Input the first string

tree

Input the second string

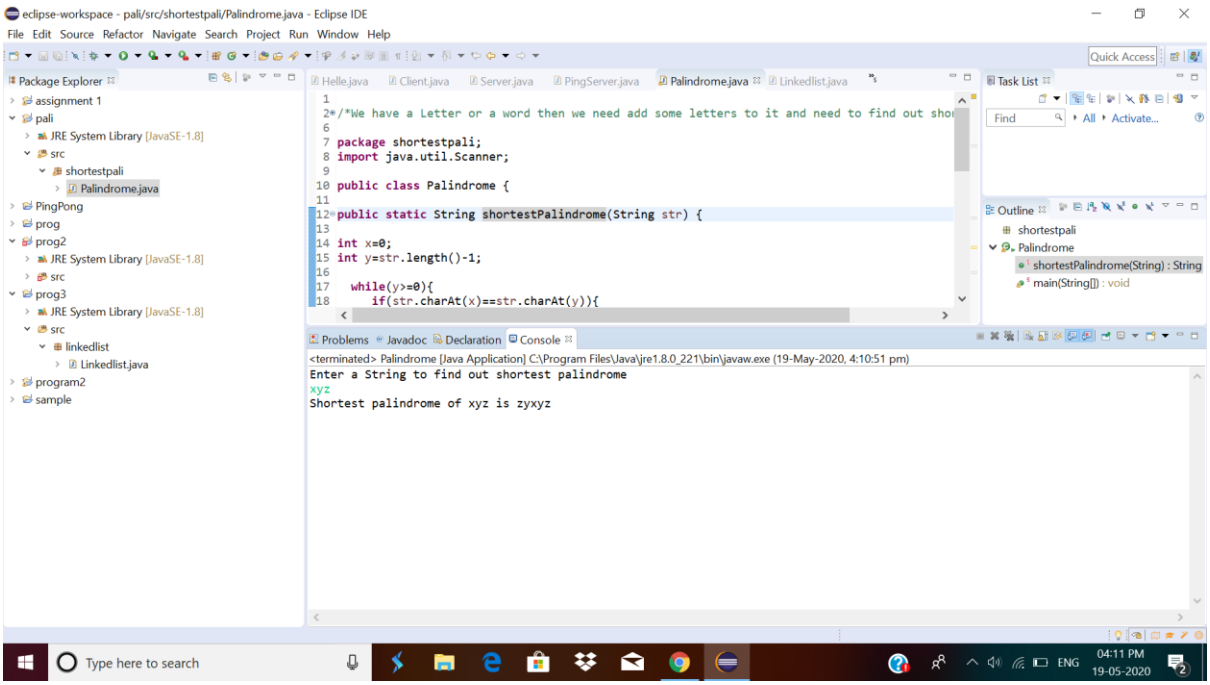
Computer science is awesome

YES

```
#include <stdio.h>
#include <string.h>
int check_subsequence (char [], char[]);
int main () {
  int flag;
  char s1[1000], s2[1000];
  printf("Input first string\n");
  gets(s1);
  printf("Input second string\n");
  gets(s2);
  if (strlen(s1) < strlen(s2))
    flag = check_subsequence(s1, s2);
  else
    flag = check_subsequence(s2, s1);
  if (flag)
    printf("YES\n");
  else
    printf("NO\n");
  return 0;
}
int check_subsequence (char a[], char b[]) {
  int c, d;
  c = d = 0;
  while (a[c] != '\0') {
    while ((a[c] != b[d]) && b[d] != '\0') {
```

```
    d++;
   }
   if (b[d] == '\0')
    break;
   d++;
   c++;
  }
 if (a[c] == '\0')
   return 1;
 else
   return 0;
}
```

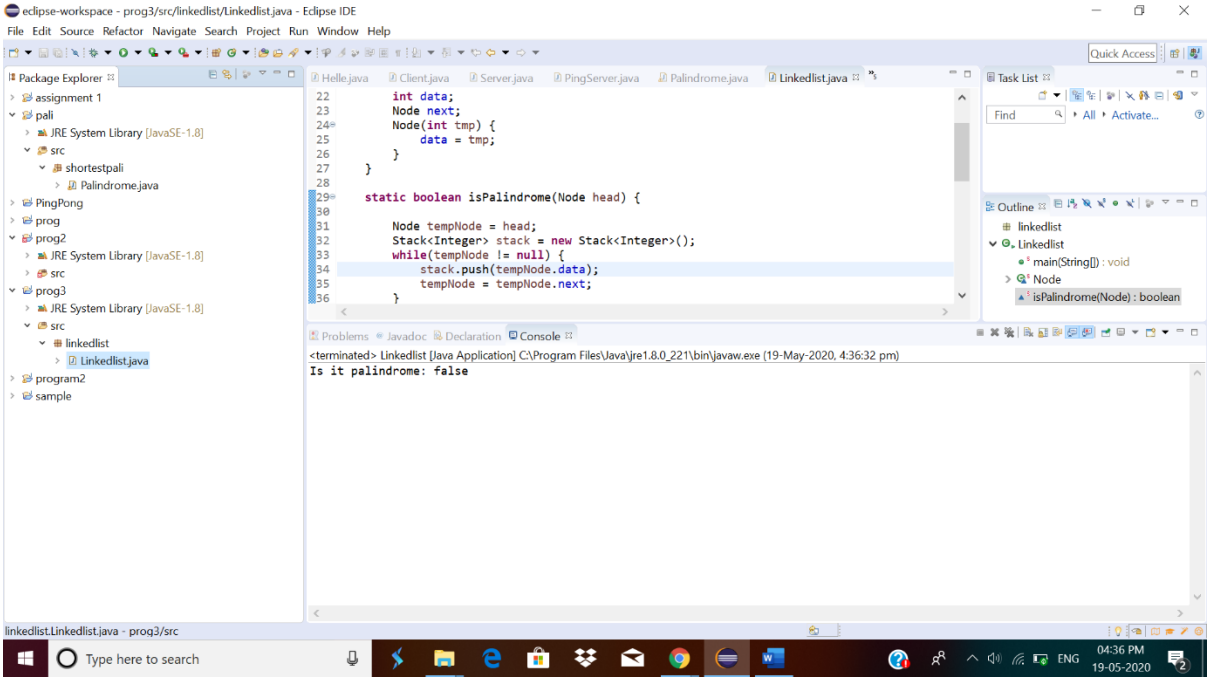
output:



We have a Letter or a word then we need add some letters to it and need to find out shortest palindrome
For example we take "S": S will be the shortest palindrome string.
If we take "xyz": zyxyz will be the shortest palindrome string
So we need to add some characters to the given string or character and find out what will be the shortest palindrome string by using simple java program.

```
package shortestpali;
import java.util.Scanner;

public class Palindrome {

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));

}

}
```

Output:


eclipse-workspace - prog3/src/linkedlist/Linkedlist.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access
Package Explorer
assignment 1
pali
JRE System Library [JavaSE-1.8]
src
shortestpali
Palindrome.java
PingPong
prog
prog2
JRE System Library [JavaSE-1.8]
src
prog3
JRE System Library [JavaSE-1.8]
src
linkedlist
Linkedlist.java
program2
sample
Helle.java
Client.java
Server.java
PingServer.java
Palindrome.java
Linkedlist.java
22 int data;
23 Node next;
24 Node(int tmp) {
25 data = tmp;
26 }
27 }
28
29 static boolean isPalindrome(Node head) {
30
31 Node tempNode = head;
32 Stack<Integer> stack = new Stack<Integer>();
33 while(tempNode != null) {
34 stack.push(tempNode.data);
35 tempNode = tempNode.next;
36 }
Task List
Find
All
Activate...
Outline
linkedlist
Linkedlist
main(String[]) : void
Node
isPalindrome(Node) : boolean
Problems
Javadoc
Declaration
Console
<terminated> Linkedlist [Java Application] C:\Program Files\Java\jre1.8.0_221\bin\javaw.exe (19-May-2020, 4:36:32 pm)
Is it palindrome: false
linkedlist.Linkedlist.java - prog3/src
Type here to search
ENG
04:36 PM
19-05-2020