DAILY ONLINE ACTIVITIES SUMMARY

Date:	**19 May 2020**	**Name:**	**Sana F Habib**
Sem & Sec	**6th sem & B sec**	**USN:**	**4AL17CS081**

Online Test Summary

Subject	**Computer Graphics And Visualization**		
Max. Marks	**60**	**Score**	**39**

Certification Course Summary

Course	**Machine Learning with python**		
Certificate Provider	**Congnitive Class**	**Duration**	**6 hours**

Coding Challenges

1.Problem Statement: 1. 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

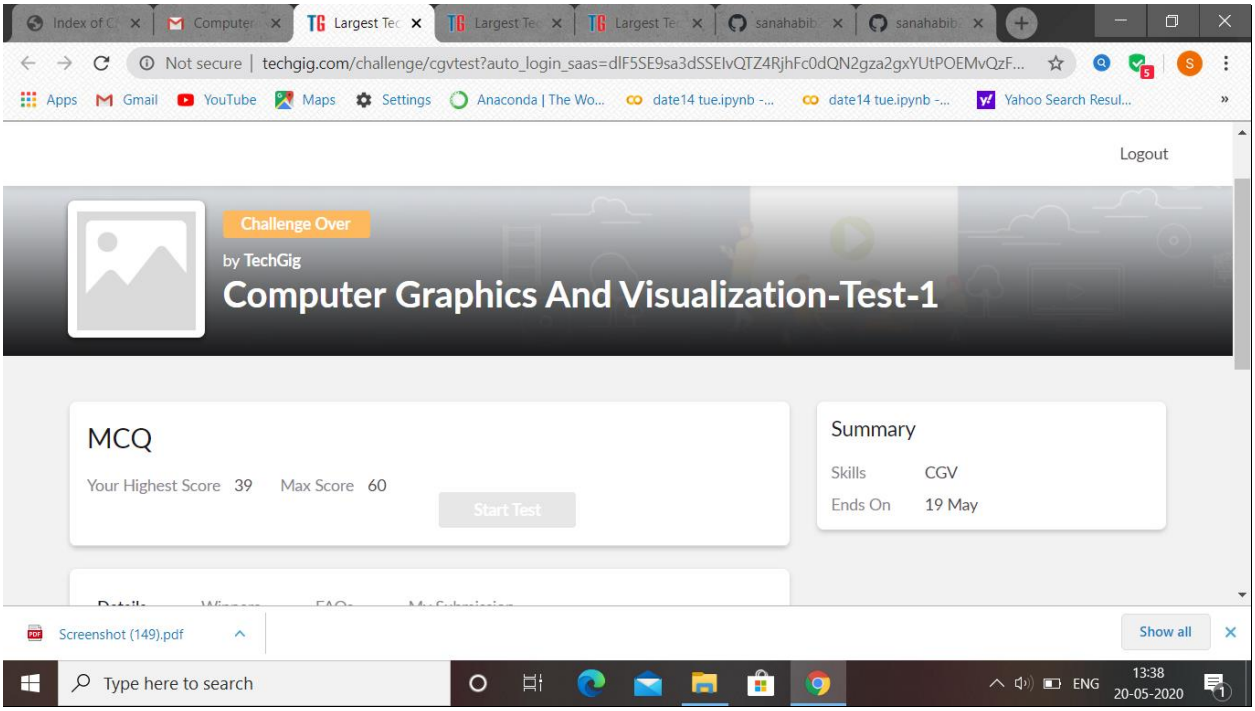
2. Write a simple code to identify given linked list is palindrome or not by using stack.
First take a Stack. Traverse through each node of the linked list and push each node value to Stack.
Once the traversal & copying is done, iterate through linked list from head node again.
In each iteration, pop one stack element and compare with node value in respective iteration.
It is expected to match stack popped value with node value.
In case of all matches, its a palindrome. Any one element mismatch makes it not a palindrome.

3. 3.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.

Status: DONE

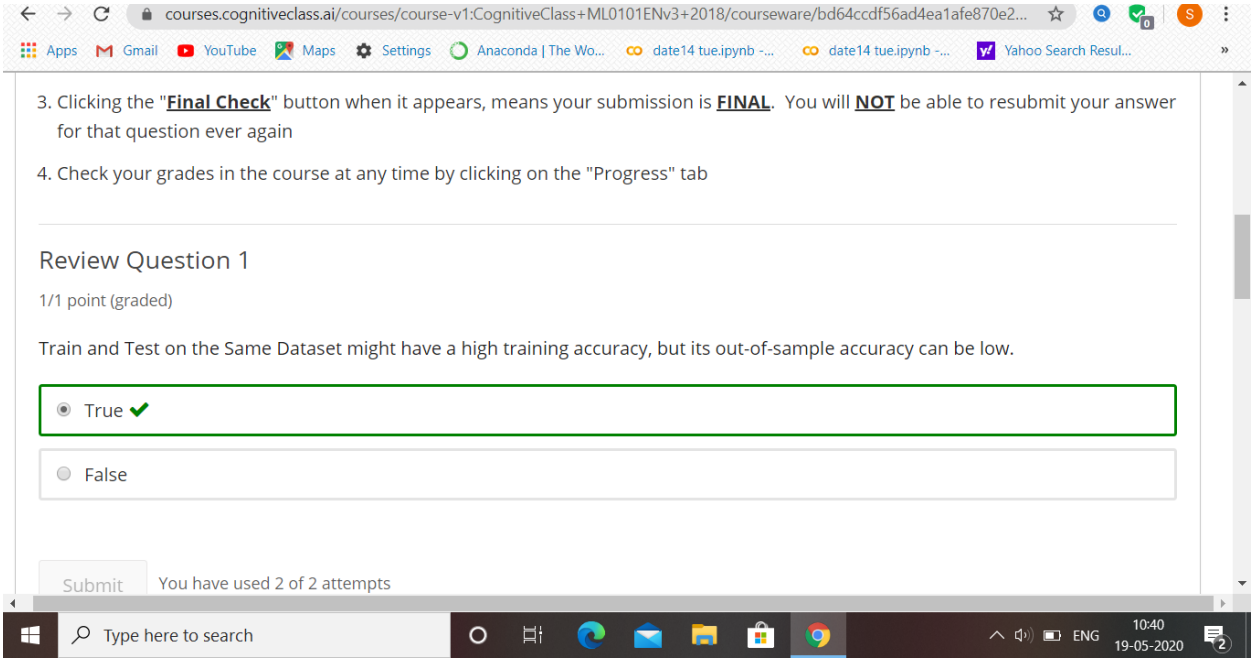
Uploaded the report in Github	**YES**
If yes Repository name	**Daily Status**
Uploaded the report in slack	

Online Test Details: (Attach the snapshot and briefly write the report for the same)



CGV IA test was held today i.e 19 May 2020. There were Three rounds where each round carried marks respectively. Out of 60 marks I scored 39

Certification Course Details: (Attach the snapshot and briefly write the report for the same


courses.cognitiveclass.ai/courses/course-v1:CognitiveClass+ML0101ENv3+2018/courseware/bd64ccdf56ad4ea1afe870e2...
Apps
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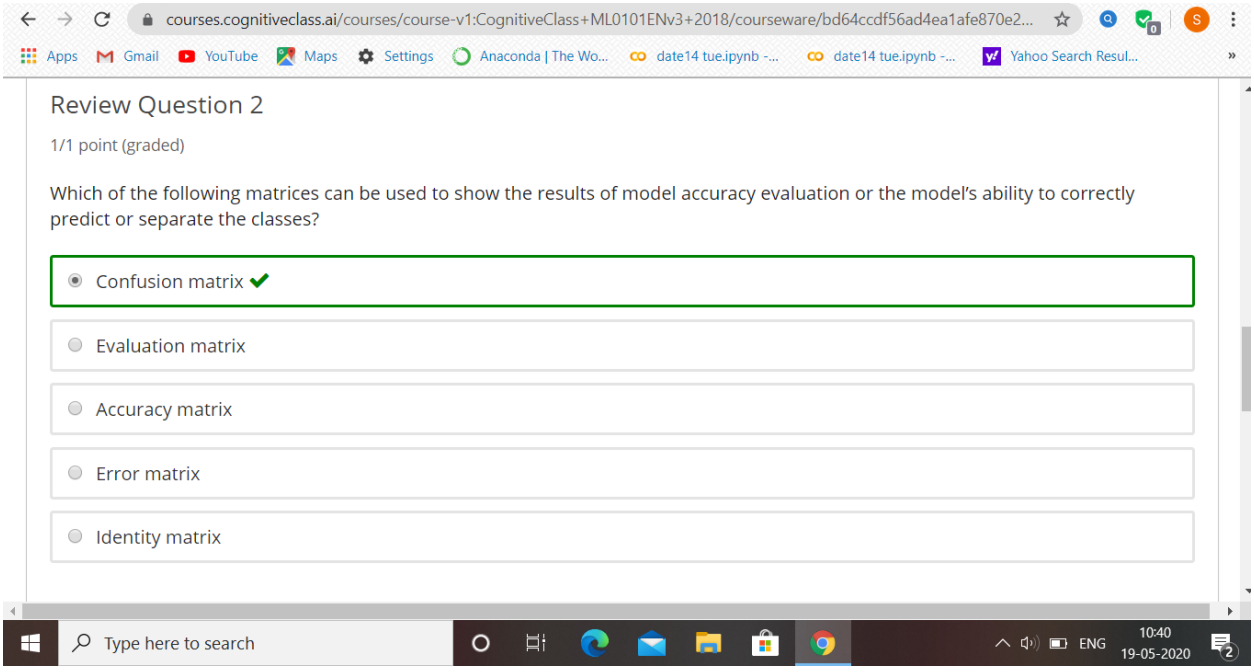
date14 tue.ipynb -...
Yahoo Search Resul...
3. Clicking the "Final Check" button when it appears, means your submission is FINAL. You will NOT be able to resubmit your answer for that question ever again
4. Check your grades in the course at any time by clicking on the "Progress" tab
Review Question 1
1/1 point (graded)
Train and Test on the Same Dataset might have a high training accuracy, but its out-of-sample accuracy can be low.
True
False
Submit
You have used 2 of 2 attempts
Type here to search
ENG
10:40
19-05-2020


courses.cognitiveclass.ai/courses/course-v1:CognitiveClass+ML0101ENv3+2018/courseware/bd64ccdf56ad4ea1afe870e2...
Apps
Gmail
YouTube
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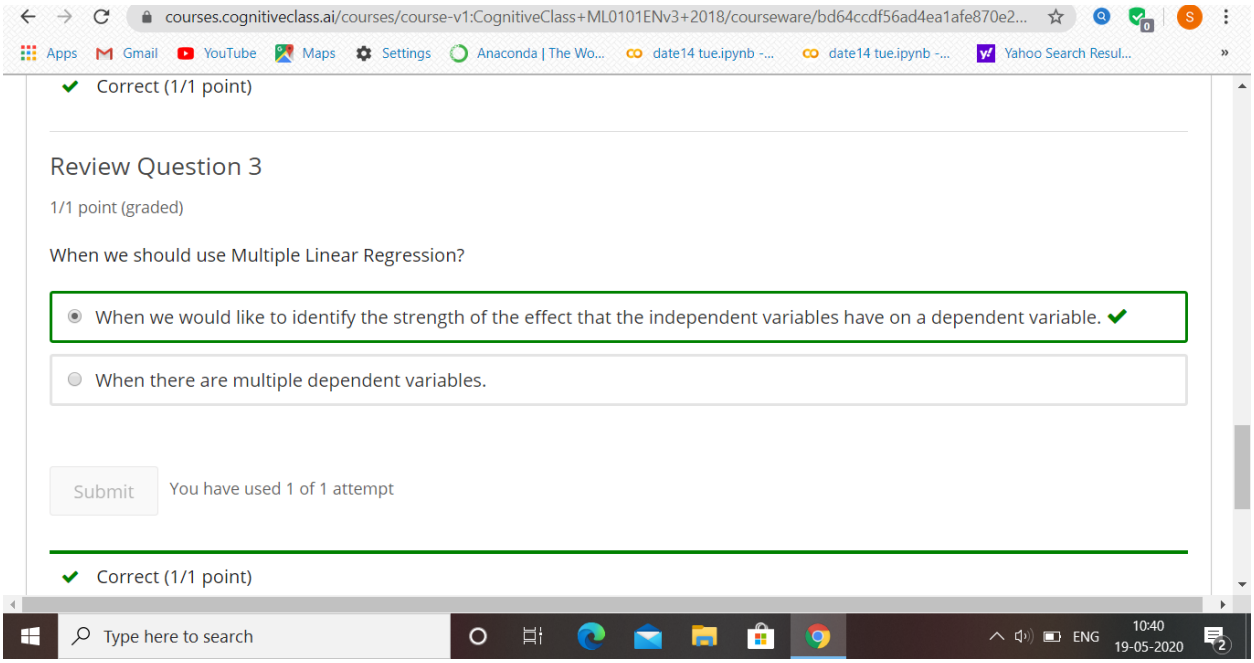
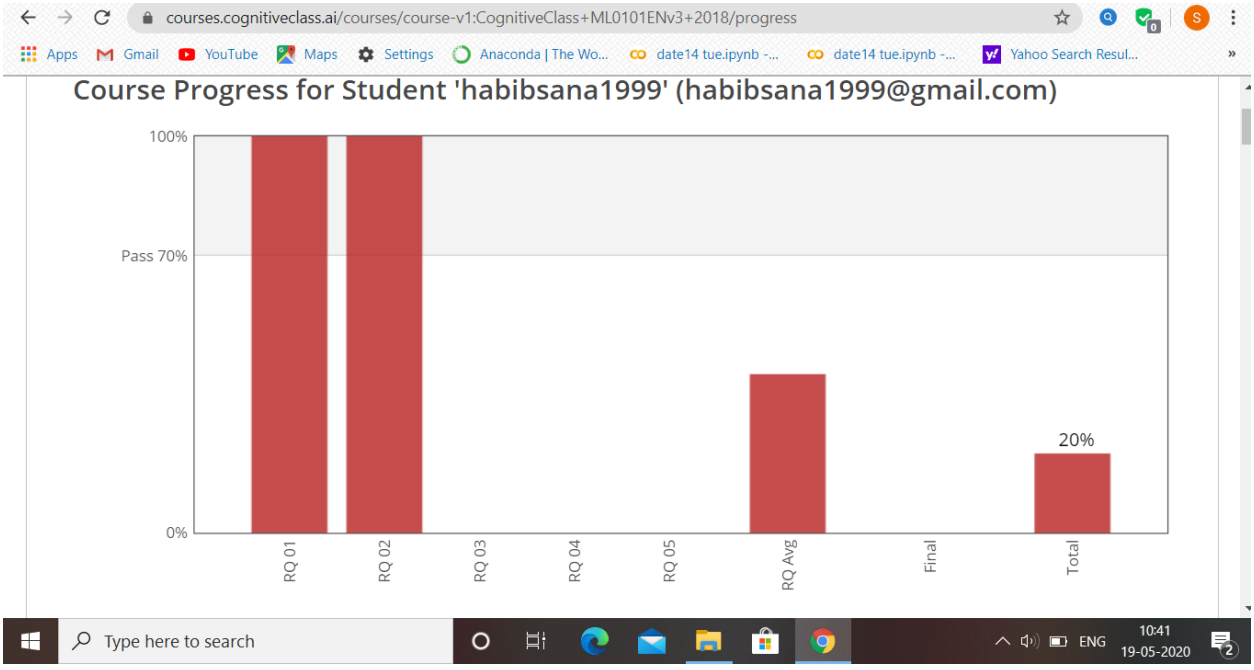
Anaconda | The Wo...
date14 tue.ipynb -...
date14 tue.ipynb -...
Yahoo Search Resul...
Review Question 2
1/1 point (graded)
Which of the following matrices can be used to show the results of model accuracy evaluation or the model's ability to correctly predict or separate the classes?
Confusion matrix
Evaluation matrix
Accuracy matrix
Error matrix
Identity matrix
Type here to search
ENG
10:40
19-05-2020





DAY 2 (19-05-2020)- Introduction to Regression, MODULE 2 Learning objectives Simple ,Linear ,Non Linear Regression, model Evaluation and Evaluation Metrics AND REVIEW QUESTIONS ARE COMPLETED

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

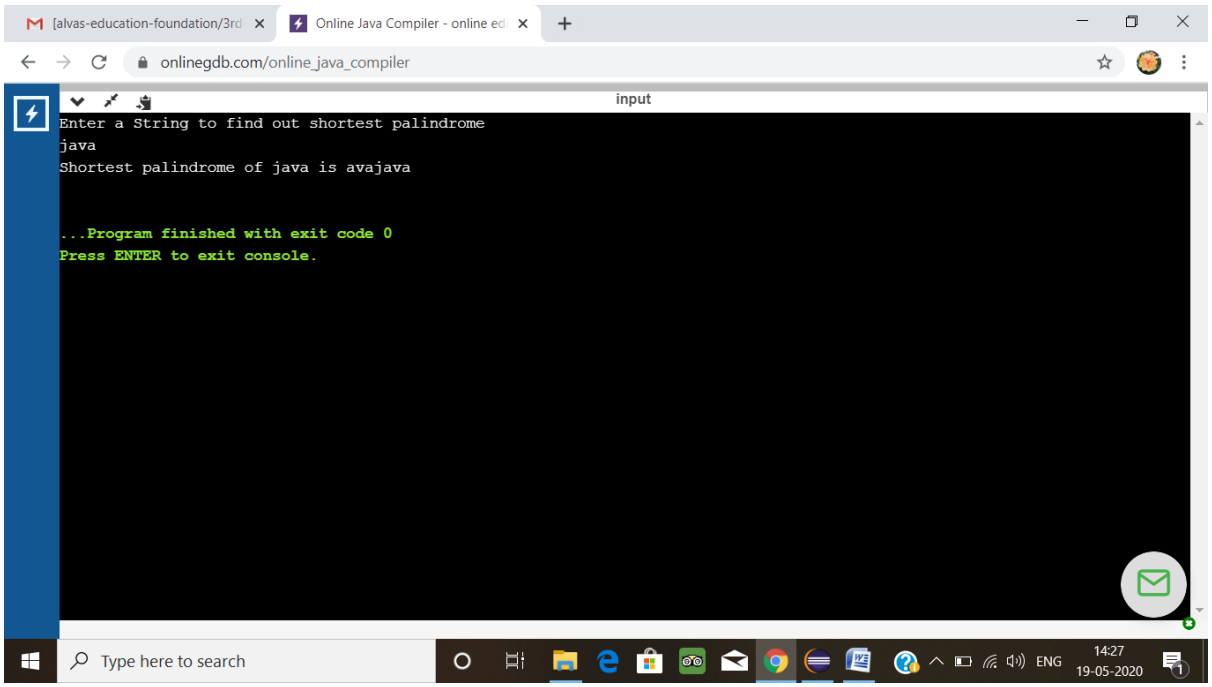
Program 1

```
import java.util.*;

public class Main{

 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:



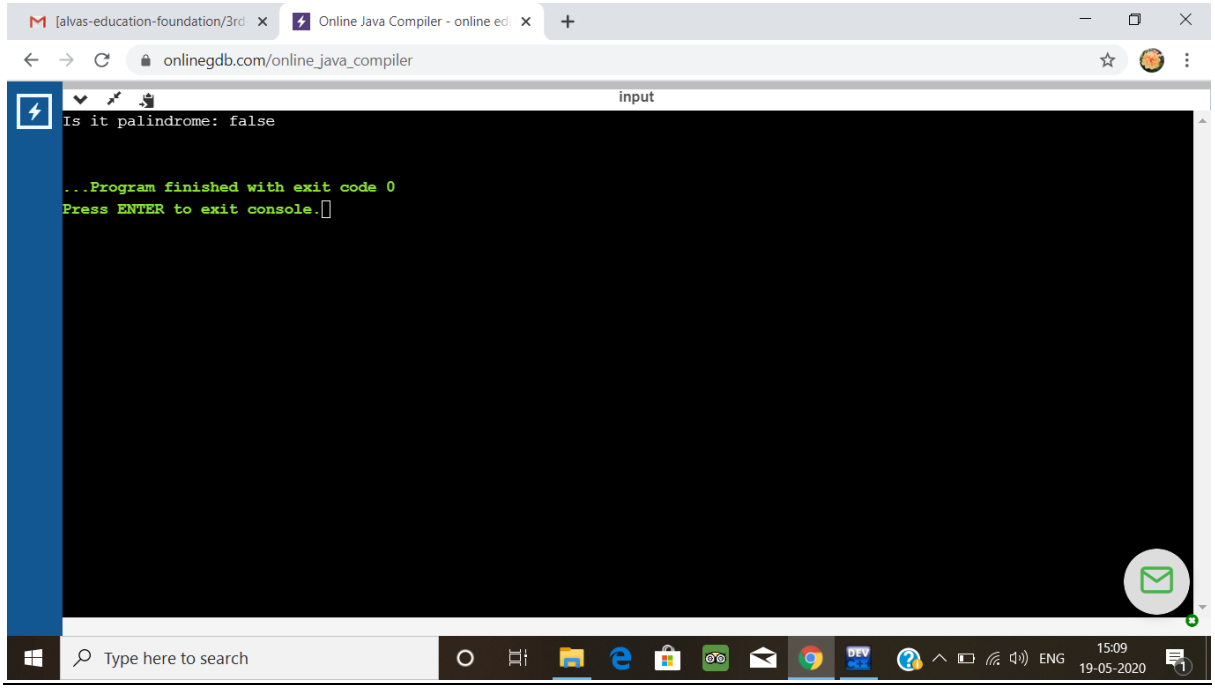
Program 2

```
import java.util.Stack;

 public class Main {

 public static void main(String[] a){

 Node n1 = new Node(10);

      Node n2 = new Node(28);

      Node n3 = new Node(15);

      Node n4 = new Node(29);

      Node n5 = new Node(10);

      n1.next = n2;

      n2.next = n3;
```

```
        n3.next = n4;
        n4.next = n5;
        boolean result = isPalindrome(n1);
        System.out.println("Is it palindrome: "+result);
    }
static class Node {
        int data;
        Node next;
        Node(int tmp) {
            data = tmp;
        }
    }

    static boolean isPalindrome(Node head) {
Node tempNode = head;
        Stack<Integer> stack = new Stack<Integer>();
        while(tempNode != null) {
            stack.push(tempNode.data);
            tempNode = tempNode.next;
        }
        while(head != null) {
            if(head.data != stack.pop()) {
                return Boolean.FALSE;
            }
            head = head.next;
```

```
    }
 return Boolean.TRUE;
   }
}
```

Output:



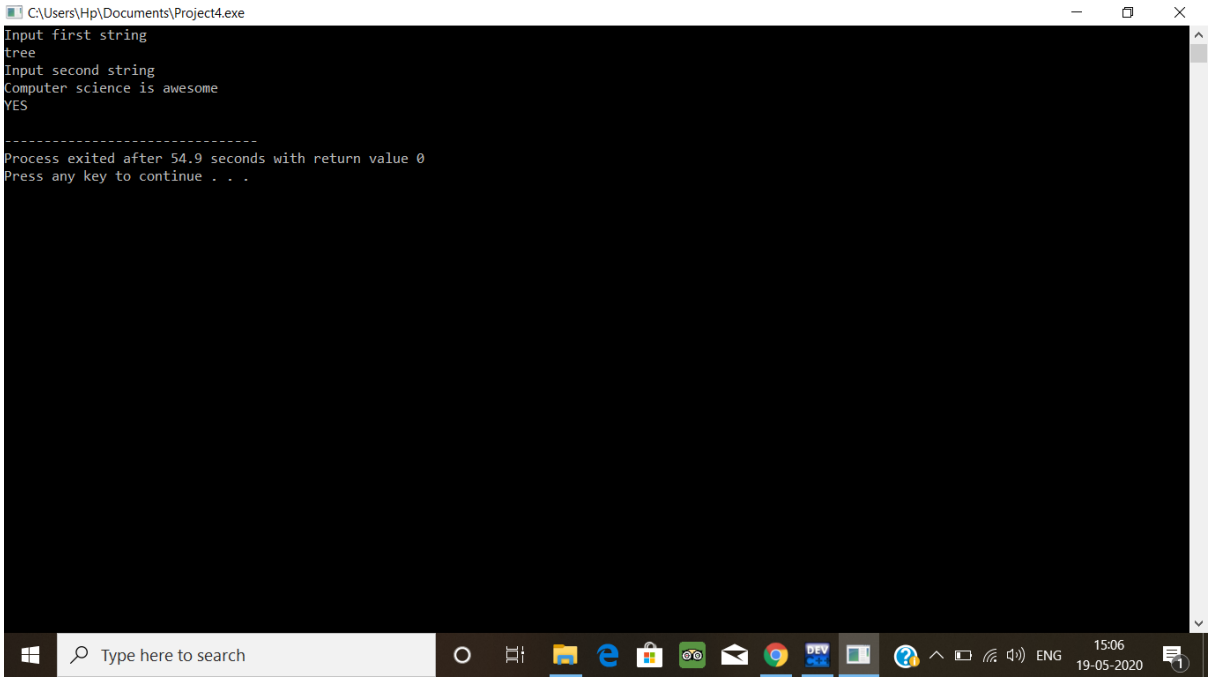
Program 3

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


C:\Users\Hp\Documents\Project4.exe
Input first string
tree
Input second string
Computer science is awesome
YES

Process exited after 54.9 seconds with return value 0
Press any key to continue . . .
Type here to search
ENG
15:06
19-05-2020