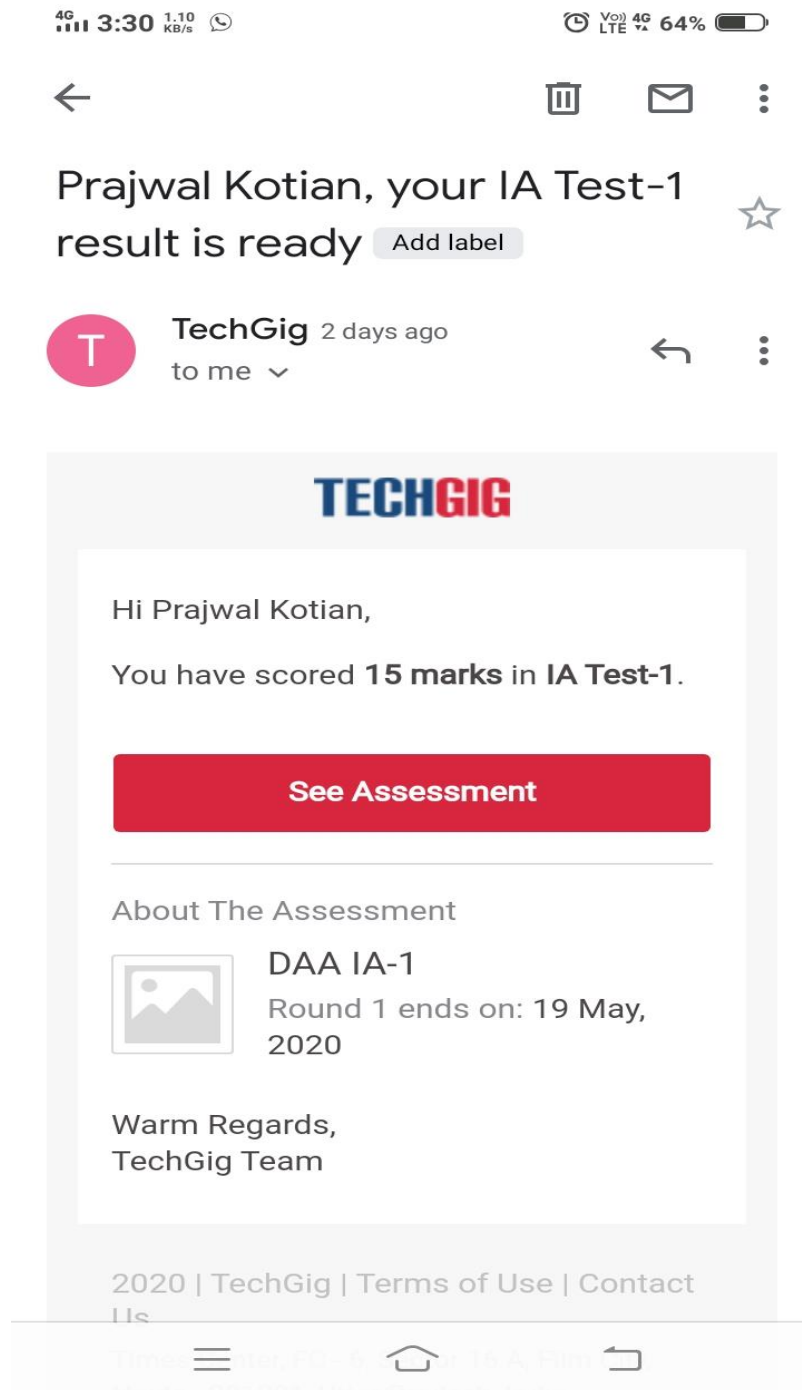


DAILY ONLINE ACTIVITIES SUMMARY

Date:	19/05/2020	Name:	Prajwal
Sem & Sec	IV sem & B sec	USN:	4AL18CS057
Online Test Summary			
Subject	Design And Analysis Algorithm		
Max. Marks	30	Score	15
Certification Course Summary			
Course	Machine Learning With Python		
Certificate Provider	COGNITIVE CLASS	Duration	12 hours
Coding Challenges			
<p>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.</p> <p>2. Write a c program to check subsequence A user will input two strings, and we find if one of the strings is a sub sequence of the other.</p>			
Status: Done			
Uploaded the report in Github		YES	
If yes Repository name		https://github.com/PRAJWALKOTIAN/lockdown-coding	
Uploaded the report in slack		YES	

Online test details

Test was conducted from 09:15 to 09:55 am dated 19 may 2020. The test includes MCQ kind of questions which contains 20 question of 1 mark and 5 question of 2 marks each.



Certification Course Details

The course I have chosen is MACHINE LEARNING WITH PYTHON in this I studied how machine language works and some important concept in machine learning.

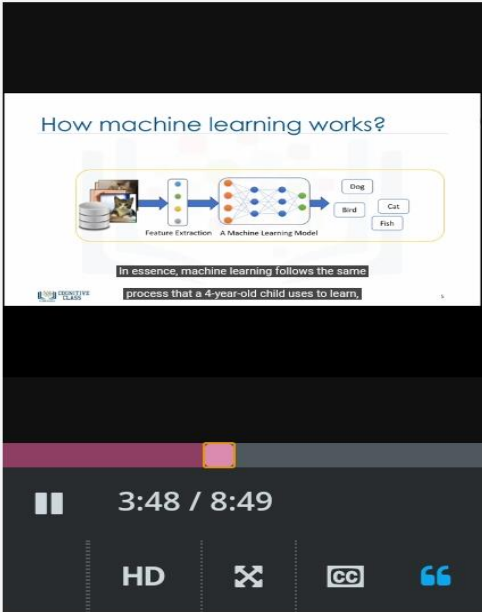
4G 4:17 2.30 KB/s 5G 59%

ourses.cognitiveclass.ai

Intro to Machine Learning (8:49)

[Bookmark this page](#)

Intro to Machine Learning (8:49)



How machine learning works?

Feature Extraction - A Machine Learning Model

Dog, Bird, Cat, Fish

In essence, machine learning follows the same process that a 4-year-old child uses to learn,

3:48 / 8:49

HD CC

explicitly being programmed to do so.

In essence, machine learning follows the same process that a 4-year-old child uses to learn,

understand, and differentiate animals.

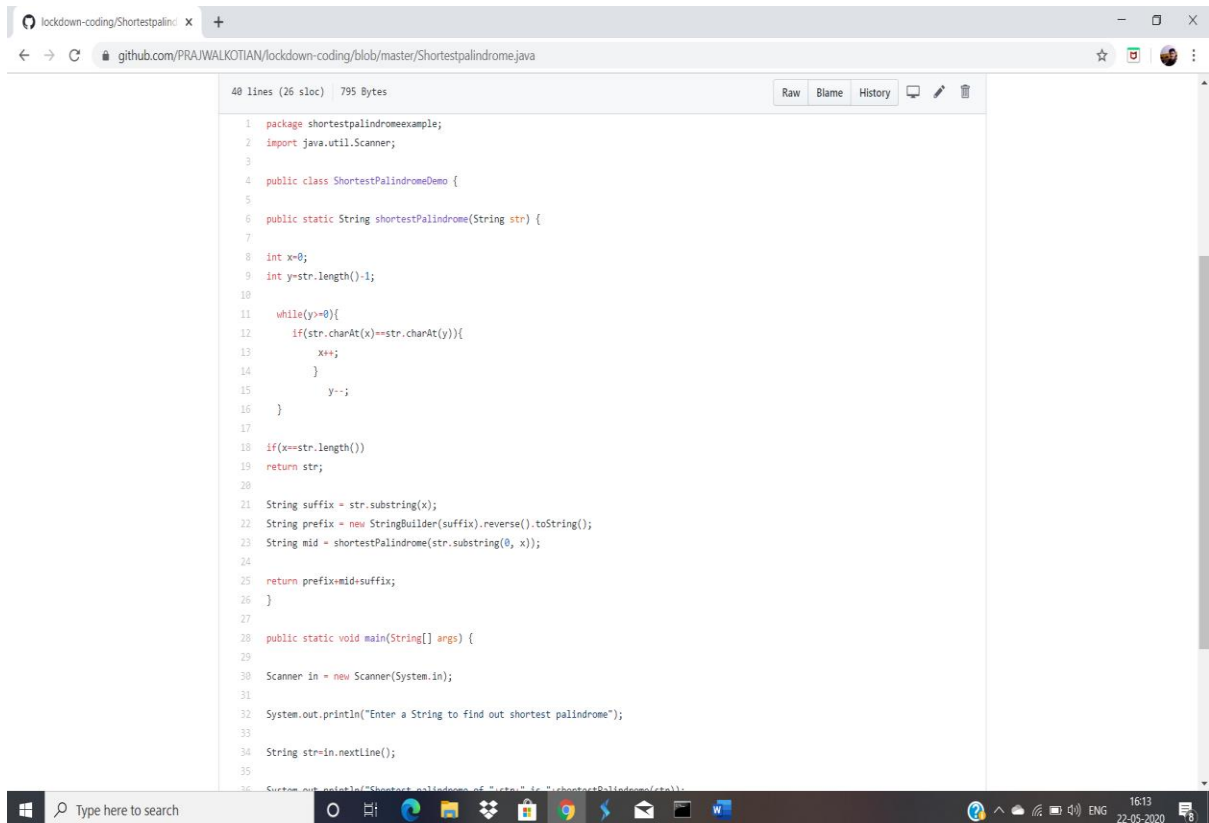
Video

[Download video file](#)

Coding Challenges Details

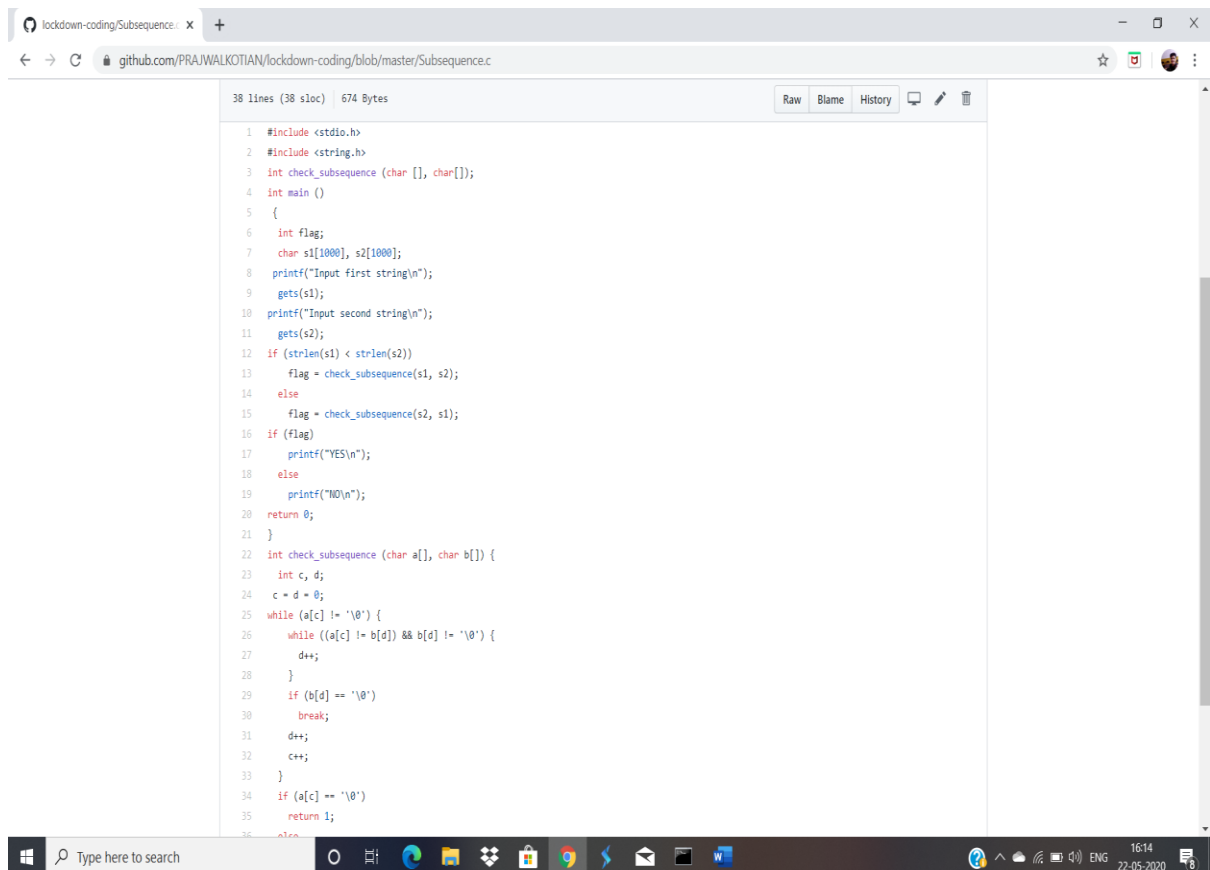
The bellow codes are there on my github repository
<https://github.com/PRAJWALKOTIAN/lockdown-coding>

1. We have a letter or a word we need to add some letters to it and need to find out shortest palindrome.



```
1 package shortestpalindromeexample;
2 import java.util.Scanner;
3
4 public class ShortestPalindromeDemo {
5
6     public static String shortestPalindrome(String str) {
7
8         int x=0;
9         int y=str.length()-1;
10
11         while(y>=0){
12             if(str.charAt(x)==str.charAt(y)){
13                 x++;
14             }
15             y--;
16         }
17
18         if(x==str.length())
19             return str;
20
21         String suffix = str.substring(x);
22         String prefix = new StringBuilder(suffix).reverse().toString();
23         String mid = shortestPalindrome(str.substring(0, x));
24
25         return prefix+mid+suffix;
26     }
27
28     public static void main(String[] args) {
29
30         Scanner in = new Scanner(System.in);
31
32         System.out.println("Enter a String to find out shortest palindrome");
33
34         String str=in.nextLine();
35
36         System.out.println("Shortest palindrome of "+str+" is "+shortestPalindrome(str));
37     }
38 }
```

2. Write a c program to check subsequence A user will input two strings, and we find if one of the strings is a sub sequence of the other.



The screenshot shows a web browser displaying a GitHub repository page for a C program. The browser's address bar shows the URL: `github.com/PRAJWALKOTIAN/lockdown-coding/blob/master/Subsequence.c`. The repository name is `lockdown-coding/Subsequence.c`. The file is 38 lines long and 674 bytes in size. The code is displayed in a monospace font with syntax highlighting. The program defines a function `check_subsequence` that takes two character arrays as input and returns an integer indicating whether the first string is a subsequence of the second. The main function prompts the user to input two strings and calls the `check_subsequence` function to determine the result.

```
1 #include <stdio.h>
2 #include <string.h>
3 int check_subsequence (char [], char []);
4 int main ()
5 {
6     int flag;
7     char s1[1000], s2[1000];
8     printf("Input first string\n");
9     gets(s1);
10    printf("Input second string\n");
11    gets(s2);
12    if (strlen(s1) < strlen(s2))
13        flag = check_subsequence(s1, s2);
14    else
15        flag = check_subsequence(s2, s1);
16    if (flag)
17        printf("YES\n");
18    else
19        printf("NO\n");
20    return 0;
21 }
22 int check_subsequence (char a[], char b[]) {
23     int c, d;
24     c = d = 0;
25     while (a[c] != '\0') {
26         while ((a[c] != b[d]) && b[d] != '\0') {
27             d++;
28         }
29         if (b[d] == '\0')
30             break;
31         d++;
32         c++;
33     }
34     if (a[c] == '\0')
35         return 1;
36     else
37         return 0;
38 }
```