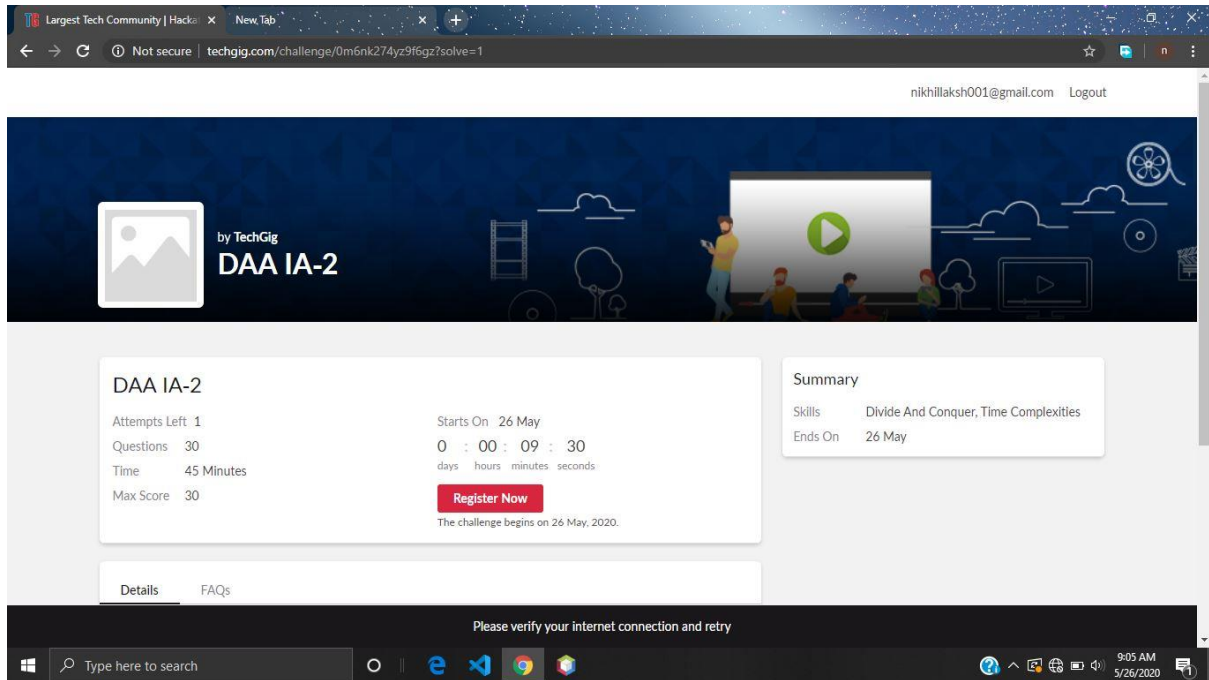


DAILY ONLINE ACTIVITIES SUMMARY

Date:	26/05/2020	Name:	NIKHIL KUMAR
Sem & Sec	4th SEM. & 'B' SEC.	USN:	4AL19CS400
Online Test Summary			
Subject	DESIGN ANALYSIS OF ALGORITHMS		
Max. Marks	30	Score	25
Certification Course Summary			
Course	PYTHON FOR MACHINE LEARNING		
Certificate Provider	Greatlearning academy	Duration	5 Hrs.
Coding Challenges			
Problem Statement: Write a program in C to print all permutations of a given string using pointers. Input: Enter the Input String: abcd Expected Result: The permutations of the string are : abcd abdc acbd acdb adcb adbc bacd badc bead bcda bdca bdac cbad cbda cabd cadb cdab cdba dbca dbac dcba dcab dacb dabc			
Status: Executed.			
Uploaded the report in Github		Yes	
If yes Repository name		C-Coding	
Uploaded the report in slack		Yes	

Online Test Summary: 18CS42 test was scheduled from 9:15 am to 10:00 am and the test scores is 26 .The portion for the IA was 2nd module there were 30 questions and the time assigned was 45 minutes the questions were mcq type. There were 30 questions of 1 mark respectively.



The screenshot shows a web browser window displaying a challenge page on TechGig. The browser's address bar shows the URL `techgig.com/challenge/0m6nk274yz9f6g2?solve=1`. The page header includes the user's email `nikhillaksh001@gmail.com` and a `Logout` link. The main banner features the text "by TechGig DAA IA-2" and an illustration of people in a classroom setting. Below the banner, there are two main sections: "DAA IA-2" and "Summary".

DAA IA-2

Attempts Left	1
Questions	30
Time	45 Minutes
Max Score	30

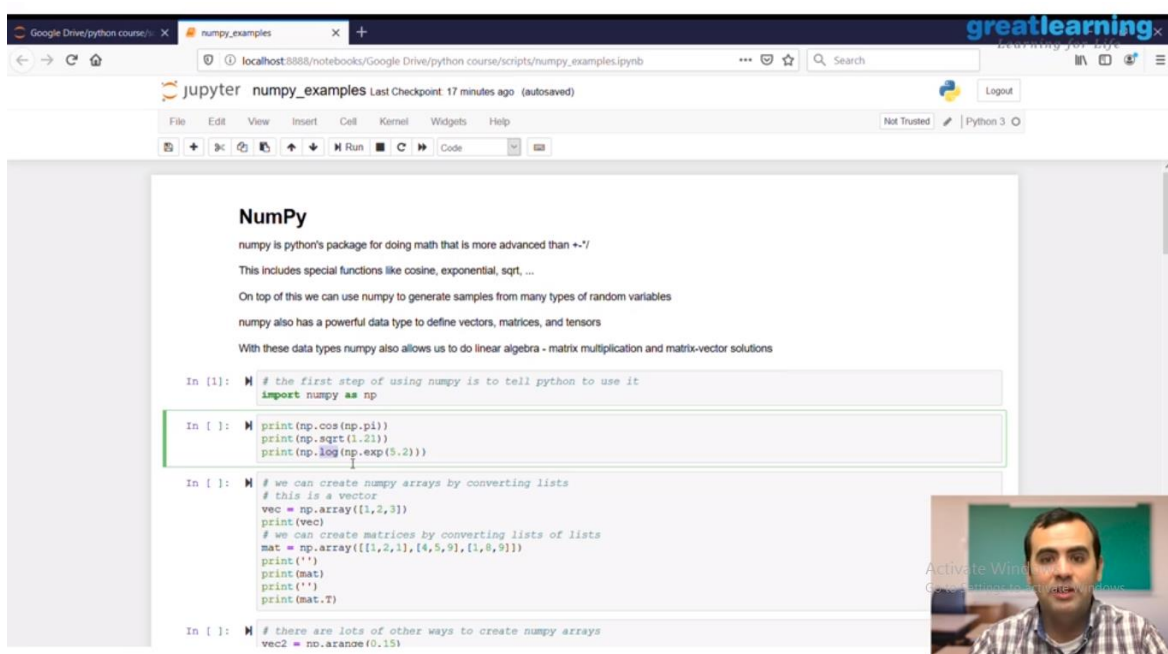
Starts On 26 May
0 : 00 : 09 : 30
days hours minutes seconds
[Register Now](#)
The challenge begins on 26 May, 2020.

Summary

Skills	Divide And Conquer, Time Complexities
Ends On	26 May

At the bottom of the page, there is a message: "Please verify your internet connection and retry". The Windows taskbar at the bottom shows the time as 9:05 AM on 5/26/2020.

Online Certification Course Summary: Today I've gone through with the steps and completed installation of NumPy in my system. Today I have learn about NumPy and also execute the some of the basic NumPy programs . NumPy, which stands for Numerical Python, is a library consisting of multidimensional array objects and a collection of routines for processing those arrays. It is shown in the below snapshot.



NumPy

numpy is python's package for doing math that is more advanced than +*/

This includes special functions like cosine, exponential, sqrt, ...

On top of this we can use numpy to generate samples from many types of random variables

numpy also has a powerful data type to define vectors, matrices, and tensors

With these data types numpy also allows us to do linear algebra - matrix multiplication and matrix-vector solutions

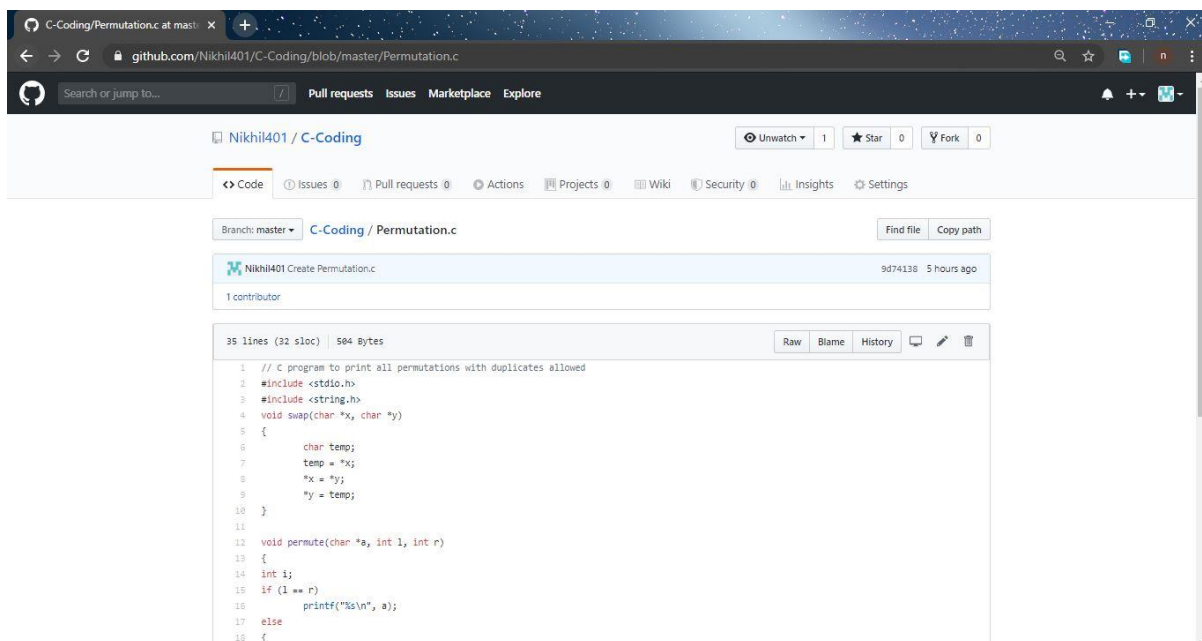
```
In [1]: # the first step of using numpy is to tell python to use it
import numpy as np

In [ ]: # print some basic numpy functions
print(np.cos(np.pi))
print(np.sqrt(1.21))
print(np.log(np.exp(5.2)))

In [ ]: # we can create numpy arrays by converting lists
# this is a vector
vec = np.array([1,2,3])
print(vec)
# we can create matrices by converting lists of lists
mat = np.array([[1,2,3],[4,5,6],[7,8,9]])
print('')
print(mat)
print('')
print(mat.T)

In [ ]: # there are lots of other ways to create numpy arrays
vec2 = np.arange(0,15)
```

Online coding Summary: Today I received two program one from Prof.Venkatesh CSE Dept another one from Prof. shilpa CSE Dept The program is mentioned above. to my GitHub repository and I've shared the snapshot below.



C-Coding/Permutation.c at masi · Nikhil401/C-Coding · GitHub

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Code Issues 0 Pull requests 0 Actions Projects 0 Wiki Security 0 Insights Settings

Branch: master C-Coding / Permutation.c Find file Copy path

Nikhil401 Create Permutation.c 9d74138 5 hours ago

1 contributor

35 lines (32 sloc) 584 Bytes Raw Blame History

```
1 // C program to print all permutations with duplicates allowed
2 #include <stdio.h>
3 #include <string.h>
4 void swap(char *x, char *y)
5 {
6     char temp;
7     temp = *x;
8     *x = *y;
9     *y = temp;
10 }
11
12 void permute(char *a, int l, int r)
13 {
14     int i;
15     if (l == r)
16         printf("%s\n", a);
17     else
18     {
```

Repository link : <https://github.com/Nikhil401/C-Coding/blob/master/Permutation.c>