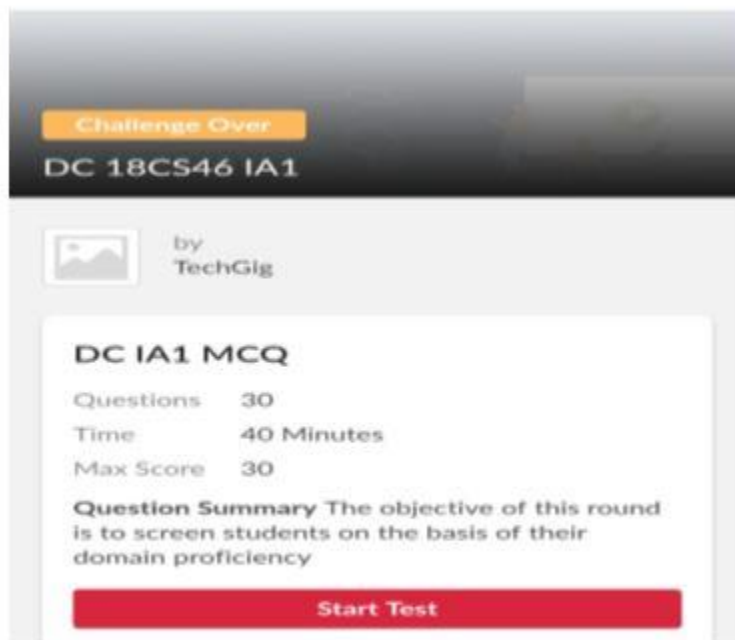


DAILY ONLINE ACTIVITIES SUMMARY

Date:	23/05/2020	Name:	NIKHIL KUMAR
Sem & Sec	4 th SEM & 'B' SEC.	USN:	4AL19CS400
Online Test Summary			
Subject	DATA COMMUNICATION		
Max. Marks	30	Score	23
Certification Course Summary			
Course	Python for Machine Learning		
Certificate Provider	Greatlearning academy	Duration	5 Hrs.
Coding Challenges			
Problem statement : write a c program to generate first N Triangular Numbers (where N is Read from the keyboard)			
Status: Executed			
Uploaded the report in Github		Yes	
If yes Repository name		c-coding	
Uploaded the report in slack		Yes	

Online Test Summary: test was conducted from 9:15 to 9:55 am dated 23rd may 2020. The test included Mcq kind of questions.



Online Certification Course Summary: Today also I went through the some basic things of Numpy.

Snapshot of today's course is given below :

The screenshot displays a web browser window with the URL `olympus.greatlearning.in/courses/10899/pages/numpy-introduction?module_item_id=568668`. The Great Learning logo and navigation links (Home, Live Sessions, My Courses) are visible at the top. The page title is "NumPy Introduction".

On the left, a "Content" sidebar lists the following items, each with a green checkmark indicating completion:

- Why Python, Python vs R, python IDE
- Anaconda installation, Intro to Jupyter notebook
- Jupyter Notebook shortcuts
- Data Structure hands-on
- Conditional Statement
- Loops
- Other Functions
- Practice Exercise - Functions_and_Loops.ipynb

The main content area features a video player showing a Jupyter notebook titled "numpy_examples". The notebook text includes:

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 [2]: # print out one np array
print(np.ones(3))
print(np.zeros(3))
print(np.log(np.arange(5,10)))
-1.0
1.1
5.2

In [3]: # 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(mat)

In [4]: # there are lots of other ways to create numpy arrays
vec2 = np.arange(0,10)
print(vec2)
```

The video player shows a man speaking in front of a green screen. The video progress bar indicates 7:01.

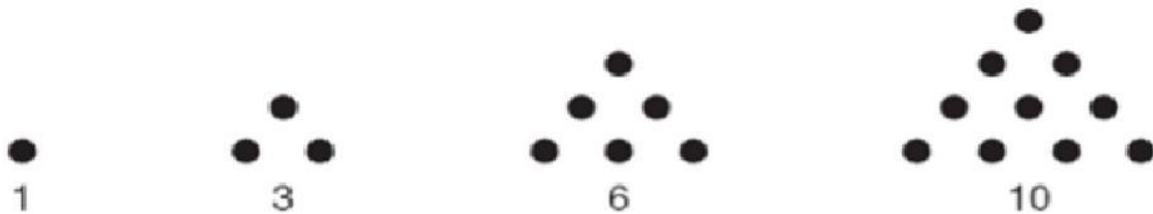
Online Coding Summary: Everyday we are given with new question of coding related to the language of c. It seems interesting how we imbibe ourselves in depth to understand the logic break it and then code for it. Today c program sent by prof. Venktesh dept CSE.

Today's program question :

(b) **Triangular number Series:** A triangular number or triangle number counts the objects that can form an equilateral triangle. The n th triangle number is the number of dots or balls in a triangle with n dots on a side; it is the sum of the n natural numbers from 1 to n .

$$T_n = \sum_{k=1}^n k = 1 + 2 + 3 + \cdots + n = \frac{n(n+1)}{2} = \binom{n+1}{2}$$

Pictorially, the triangular numbers can be represented as below:



Link : <https://github.com/Nikhil401/C-Coding/blob/master/Triangular.c>