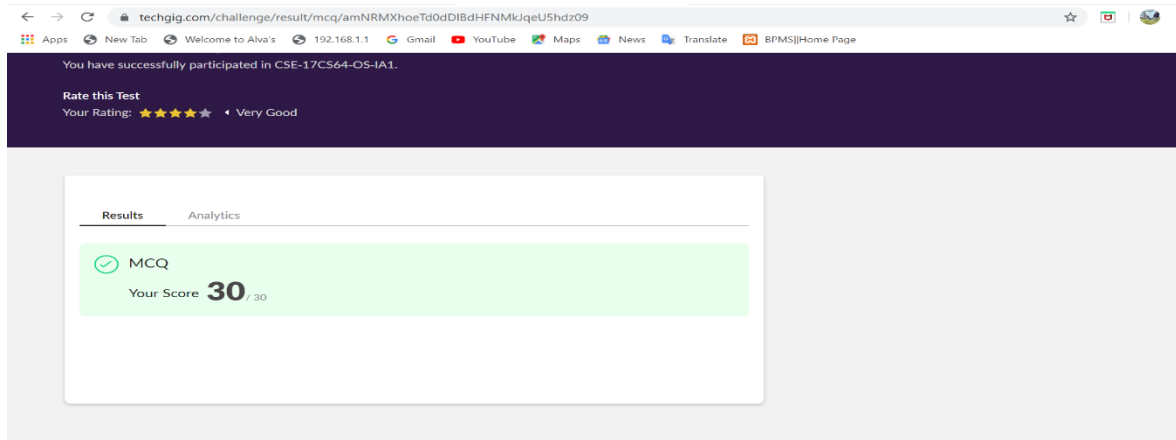


## **DAILY ONLINE ACTIVITIES SUMMARY**

Date:	21/05/2020	Name:	Chethana j
Sem & Sec	6 <sup>th</sup> A	USN:	4al17cs022
<b>Online Test Summary</b>			
Subject	OS		
Max. Marks	30	Score	30
<b>Certification Course Summary</b>			
Course	Python for Machine learning		
Certificate Provider	Great Learning	Duration	5 hrs.
<b>Coding Challenges</b>			
<b>Problem Statement:</b> 1. Write a menu program in Python to find Area-Circle, Circumference-Circle, Area- Square, Circumference-Square using functions with menu choice.Create seperate functions for each choice of menu.  2. Python program in number right angled triangle.			
<b>Status: Completed</b>			
Uploaded the report in Github		yes	
If yes Repository name		<a href="https://github.com/Jchethana1990/online-course">https://github.com/Jchethana1990/online-course</a>	
Uploaded the report in slack		yes	

### **Online Test Details:**



## Certification Course Details:

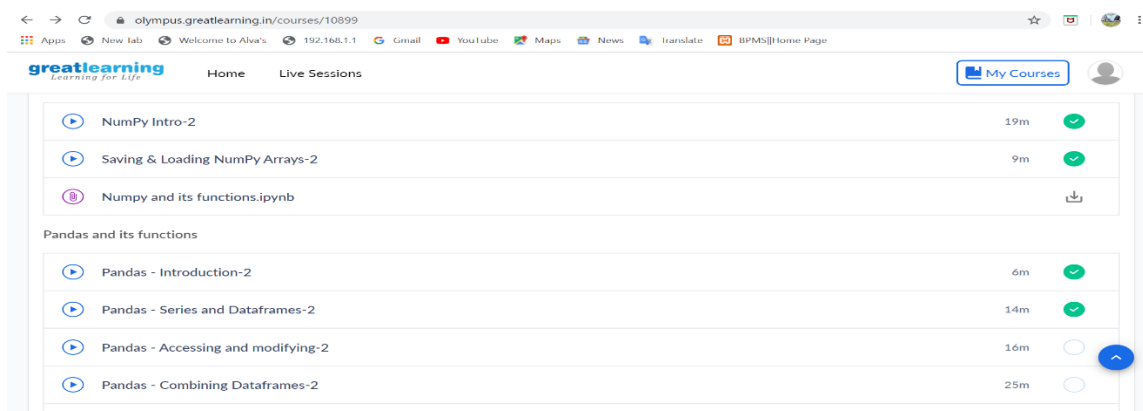
Topics I covered:

NumPy intro-2

Saving&loading numpy array-2

Pandas-introduction-2

Pandas-series and dataframes-2



olympus.greatlearning.in/courses/10899/pages/pandas-series-and-dataframes-2?module\_item\_id=565942

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Arrays-2 ✓

Numpy and its functions.ipynb

Pandas Introduction 2 ✓

Pandas - Series and Dataframes 2 ✓

Pandas - Accessing and modifying-2

Pandas - Combining Dataframes 2

Pandas - Functions-2

Pandas Saving and Loading dataframes-2

Pandas and Its Functions.ipynb

Pandas Train Dataset

jupyter pandas\_example Last checkpoint a few seconds ago (auto-saved)

Similar to numpy arrays, a dataframe is a more robust data type for storing data than lists. Dataframes are more flexible than numpy arrays. A numpy array can create a matrix with all entries of the same data type. In a dataframe each column can have its own datatype. That's not to say numpy arrays aren't useful. It is often easier to convert some subset of a dataframe to a numpy array and then use that to do some math. Pandas also has SQL-like functions for merging, joining, and sorting dataframes.

```

In [1]: import pandas as pd
import numpy as np # numpy is not necessary for pandas, but we will use more code in this example
# in general it's good practice to import all packages at the beginning

# First let's look at series - think of this as a single column of a spreadsheet
# each entry in a series corresponds to an individual row in the spreadsheet
# we can create a series by converting a list, or numpy array
mylist = [5,4,6,1,1,7,99.01]
myarray = np.array(mylist)

In [2]: myseries1 = pd.Series(mylist)
print(myseries1)
myseries2 = pd.Series(myarray)
print(myseries2)

In [3]: # we access individual entries the same way as with lists and arrays
print(myseries1[1])

In [4]: # we can add labels to the entries of a series
mylabels = ['first','second','third','fourth']
myseries3 = pd.Series(myarray, index=mylabels)
print(myseries3)

In [5]: # we need not be worried about the order of pd.Series

```

## Coding Challenges Details:

**Program1:** Write a menu program in Python to find Area-Circle, Circumference-Circle, Area-Square, Circumference-Square using functions with menu choice. Create separate functions for each choice of menu.

online python compiler - Yahoo Online Python Compiler - online

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main.py

```

1 def arcir(r):
2     print("Area of circle = ", 3.14*r*r, " cm²")
3 def crcir(r):
4     print("Circumference of circle = ", 2*3.14*r, " cm")
5 def arsq(s):
6     print("Area of square = ", s*s, " cm²")
7 def crsq(s):
8     print("Circumference of square = ", 4*s, " cm")
9 print("Menu: \n")
10 print("1.Area of Circle\n")
11 print("2.Circumference of Circle\n")
12 print("3.Area of Square\n")
13 print("4.Circumference of Square\n")
14 ch = int(input("Enter your choice\n"))
15 if(ch==1):
16     r = int(input("Enter the radius\n"))
17     arcir(r)
18 if(ch==2):
19     r = int(input("Enter the radius\n"))
20     crcir(r)
21 if(ch==3):
22     s = int(input("Enter the side\n"))
23     arsq(s)
24 if(ch==4):
25     s = int(input("Enter the side\n"))
26     crsq(s)
27 if(ch>4 or ch<=0):
28     print("Invalid Choice")
29

```

input

Waiting for vsb01.tawk.to...

Type here to search

19:16 21-05-2020

The screenshot shows the OnlineGDB Python IDE interface. The code in `main.py` defines functions for calculating the area and circumference of a circle. The program has been executed, and the output shows the area as 50.24 cm².

```
main.py
1 def arcir(r):
2     print("Area of circle = ", 3.14*r*r, " cm²")
3 def crcir(r):
4     print("Circumference of circle = ", 2*3.14*r, " cm ")
5 def arsq(s):

Input
Menu:
1.Area of Circle
2.Circumference of Circle
3.Area of Square
4.Circumference of Square
Enter your choice
1
Enter the radius
4
Area of circle =  50.24  cm²
...Program finished with exit code 0
Press ENTER to exit console.
```

The screenshot shows the OnlineGDB Python IDE interface. The code in `main.py` defines functions for calculating the area and circumference of a circle. The program has been executed, and the output shows the circumference as 31.400000000000002 cm.

```
main.py
1 def arcir(r):
2     print("Area of circle = ", 3.14*r*r, " cm²")
3 def crcir(r):
4     print("Circumference of circle = ", 2*3.14*r, " cm ")
5 def arsq(s):

Input
Menu:
1.Area of Circle
2.Circumference of Circle
3.Area of Square
4.Circumference of Square
Enter your choice
2
Enter the radius
5
Circumference of circle =  31.400000000000002  cm
...Program finished with exit code 0
Press ENTER to exit console.
```

Program2: Python program in number right angled triangle.

Browser tabs: Inbox (2,012) - chethanajgowda, [alvas-education-foundation/csi, online python compiler - Yahoo, Online Python Compiler - online

Address bar: onlinegdb.com/online\_python\_compiler

Navigation bar: Apps, New Tab, Welcome to Alva's, 192.168.1.1, Gmail, YouTube, Maps, News, Translate, BPMSJHome Page

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Waiting for vsb81.tawiko...

main.py

```
1 n = int(input("Enter the number"))
2 for i in range(0,n+1):
3     for j in range(n-1,0,-1):
4         print(j,end=" ")
5     print("\n")
```

Language Python 3

Run Debug Stop Share Save Beautify

Input

```
Enter the number 8
87654321
7654321
654321
54321
4321
321
21
1
...Program finished with exit code 0
Press ENTER to exit console.
```

Windows taskbar: Type here to search, 1920x1080, 21-05-2020