

DAILY ONLINE ACTIVITIES SUMMARY

Date:	26-05-2020	Name:	M.C Suchithra Heggade
Sem & Sec	VI A	USN:	4AL17CS047
Online Test Summary			
Subject	CGV IA Test		
Max. Marks	30	Score	22
Certification Course Summary			
Course	Python for Machine learning		
Certificate Provider	Great Learning	Duration	5hr
Coding Challenges			
Problem Statement: Python Programs 1. Python Program to Print all Integers that Aren't Divisible by Either 2 or 3 and Lie between 1 and 50 2. Python Program to Check if a Number is a Palindrome 3. Python Program to Count the Number of Digits in a Number 4. Python Program to Read a Number n And Print the Series "1+2+.....+n= " C prog 1. Given an array A of size N where the array elements contain values from 1 to N with duplicates, the task is to find total number of subarrays which start and end with the same element. 2. Write a program in C to print all permutations of a given string			
Status: Completed			

Uploaded the report in GitHub	Yes
If yes Repository name	https://github.com/Suchitraheggade/certification-and-online-coding
Uploaded the report in slack	Yes

Online test Detail:

Test Completed!

You have successfully participated in Computer Graphics and Visualization Test-2.

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Results Analytics

✓ MCQ
Your Score **22** / 30

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Online Certification Details

Modules completed:

User defined functions, Lambda functions, classes and objects.

User Defined Functions: Pyth

olympus.greatlearning.in/courses/10899/pages/user-defined-functions?module_item_id=444827

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Courses / Python for Machine Learning / User Defined Functions

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Python for Machine Learning - Overview

Course Overview

Introduction to Python

Why Python, Python vs R, python IDE

Anaconda installation, Intro to Jupyter notebook

Jupyter Notebook shortcuts

Data Structure hands-on

Conditional Statement

Loops

User Defined Functions

jupyter Python_functions_Class Last Checkpoint: 13 minutes ago (autosaved)

File Edit View Insert Cell Kernel Widgets Help

Not Trusted Python 3

Introduction to user defined functions in python 3.x

What is a function ?
1. A function is a device that groups a set of logically related statement that perform a specific task
2. Functions help break a program into modular chunks.
3. Functions help optimize coding by allowing re-use through function call

Defining a function -
def function_name(parameters): """docstring""" statement(s) return
1. def is an executable code. This executable creates the function object and assigns it a name
2. The def statement ends with a colon (:)
3. The statements in the body of the function are indented to show that they belong to the function
4. All statements in the function should be indented using same characters (i.e. tab or space. Do not mix them i.e use space in one line
5. Doc string is used for documenting about the function. It is not mandatory. However, if used, it can be accessed using doc. For e.g. p
the function defined below.
6. Return statement is used to exit from the function. The return statement may return an object or simply return. It is not mandatory to
statement
For e.g.

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Lambda Functions: Python | Inbox (1,803) - sucheetra565@ | olympus.greatlearning.in/courses/10899/pages/lambda-functions?module_item_id=444828

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Courses / Python for Machine Learning / Lambda Functions

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- Course Overview
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 - Why Python, Python vs R, python IDE
 - Anaconda installation, Intro to Jupyter notebook
 - Jupyter Notebook shortcuts
 - Data Structure hands-on
 - Conditional Statement
 - Loops

Lambda Functions

```
def func(x):  
    return x + 1  
  
my_list = [1, 5, 4, 6, 8, 11, 3, 12]  
new_list = list(filter(lambda x: (x%2 == 0), my_list))  
# Output: [4, 6, 8, 12]  
print(new_list)
```

Use of user defined functions in machine learning

```
In [8]: # use to identify null values  
import pandas as pd  
import numpy as np  
  
mpg_df = pd.read_csv("car-mpg.csv")  
mpg_df = mpg_df.replace('?', np.nan) # pre-defined function replace  
mpg_df['hp'] = mpg_df['hp'].astype('float64')  
numeric_cols = mpg_df.drop('car_name', axis=1)  
print(numeric_cols.head(50))  
numeric_cols = numeric_cols.apply(lambda x: x.fillna(x.median()),axis=0) #lambda function  
print(numeric_cols.head(50))  
mpg_df_hp.median()
```

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Classes and Objects: Python | Inbox (1,803) - sucheetra565@ | olympus.greatlearning.in/courses/10899/pages/classes-and-objects?module_item_id=444829

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Courses / Python for Machine Learning / Classes and Objects

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- Pandas - Functions-4
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- User Defined Functions
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- Classes and Objects**
- Official Python Documentation
- Official Python Tutorial
- NumPy Basics
- 10 minutes to Pandas
- Stack Over Flow Q & A

Classes and Objects

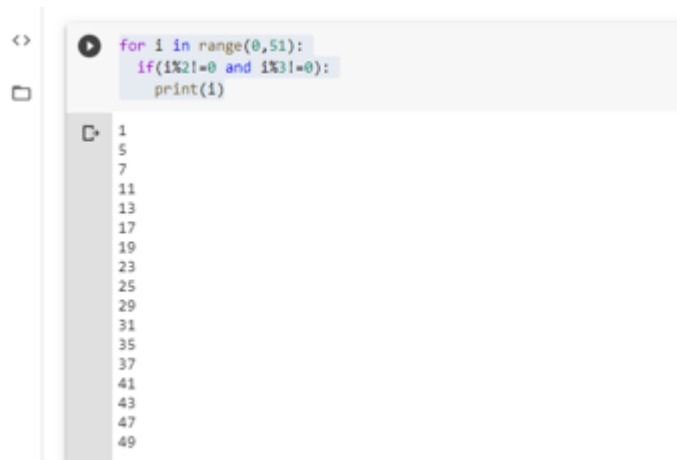
```
In [70]: c1 = Class1() # This is where an object is created from the class and labeled as c1  
  
In [71]: # To make use of the functionality in the object c1  
c1.function()  
The name Satish is inside the class.  
  
In [72]: c2 = Class1()  
c2.name = "Shiva"  
c2.function()  
The name Shiva is inside the class.  
  
In [13]: # why do we need "self" ?  
  
# Class.function() and c1.function() are slightly different though related  
# First, c1 is a function  
# Second, c1.function() is a method!  
# Python methods require the object itself to be passed on as the first argument  
# to the corresponding function. This is useful when you create multiple objects out of  
# a class and wish to call the object.method. When the method is called, the corresponding  
# class function is executed. Which will need to know which instance the data is coming from!
```

How would you rate this video

Coding Challenge Details

Python Programs

1. Python Program to Print all Integers that Aren't Divisible by Either 2 or 3 and Lie between 1 and 50



```
<>
❏
▶ for i in range(0,51):
    if (i%2!=0 and i%3!=0):
        print(i)
```

1
5
7
11
13
17
19
23
25
29
31
35
37
41
43
47
49

2. Python Program to Check if a Number is a Palindrome

```

n=int(input("Enter number:"))
temp=n
rev=0
while(n>0):
    dig=n%10
    rev=rev*10+dig
    n=n//10
if(temp==rev):
    print("The number is a palindrome!")
else:
    print("The number isn't a palindrome!")

```

```

Enter number:11211
The number is a palindrome!

```

```

Enter number:1234
The number isn't a palindrome!

```

3. Python Program to Count the Number of Digits in a Number

```

n=int(input("Enter number:"))
count=0
while(n>0):
    count=count+1
    n=n//10
print("The number of digits in the number are:",count)

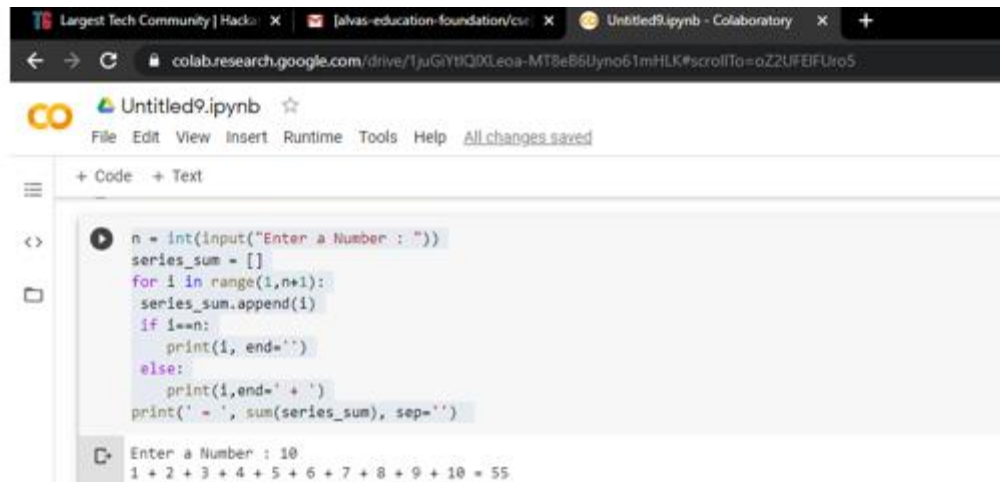
```

```

Enter number:27895364786
The number of digits in the number are: 11

```

4. Python Program to Read a Number n And Print the Series "1+2+.....+n= "



The screenshot shows a Google Colaboratory notebook interface. The browser tabs at the top include 'Largest Tech Community | Hack...', 'jalvas-education-foundation/cse', and 'Untitled9.ipynb - Colaboratory'. The address bar shows the URL 'colab.research.google.com/drive/1juGiYbQDXLeoa-MT8eB6Uyno61mHLK#scrollTo=oZ2UFEFUIro5'. The notebook title is 'Untitled9.ipynb'. The menu bar includes 'File', 'Edit', 'View', 'Insert', 'Runtime', 'Tools', 'Help', and 'All changes saved'. The code editor shows a Python program that takes an input 'n', creates a list 'series_sum', and iterates from 1 to n, appending each number to the list. It then prints the list and the sum of the list. The output shows the input '10' and the sum '55'.

```
n = int(input("Enter a Number : "))
series_sum = []
for i in range(1,n+1):
    series_sum.append(i)
if i==n:
    print(i, end='')
else:
    print(i,end=' + ')
print(' = ', sum(series_sum), sep='')

Enter a Number : 10
1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10 = 55
```

C Programs

1. Given an array A of size N where the array elements contain values from 1 to N with duplicates, the task is to find total number of subarrays which start and end with the same element.

The screenshot shows a web browser with two tabs: 'alvas-education-foundation/3rd' and 'Online C Compiler - online editor'. The address bar shows 'onlinegdb.com/online_c_compiler'. The interface includes a toolbar with buttons for Run, Debug, Stop, Share, Save, Beautify, and a download icon. The language is set to C++. The code editor contains the following C code:

```
5
1 2 1 5 2
7

...Program finished with exit code 0
Press ENTER to exit console.
```

The output of the program is displayed in the console area, showing the number 5, the string '1 2 1 5 2', and the number 7.

2. Write a program in C to print all permutations of a given string

[alvas-education-foundation/3rd] Online C Compiler - online editor +

onlinegdb.com/online_c_compiler

input

```
Enter a string: abcd
Permutations:
abcd
abdc
acbd
acdb
adcb
adbc
bacd
badc
bcad
bdca
bdac
cbad
cbda
cabd
cadb
cdab
cdba
dabc
dbac
dcba
dcab
dacb
dabc

...Program finished with exit code 0
Press ENTER to exit console.
```

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