

Updated Report summary

28.5.20

Github Daily update Status report

Out of 18 assigned , 16 have reported

As the following students have not updated their daily report (28.5.20) in their specific repository(before deadline 6.00 am on 29.5.20) , their report has not been updated (Finalized report already sent to higher authorities)

Spoorthy MS

Ankit

DAILY ONLINE ACTIVITIES SUMMARY

Shetty Disha Ravindra

Date:	28-05-2020	Name:	Shetty Disha Ravindra
Sem & Sec	VI B sec	USN:	4a17cs087

Online Test Summary

Subject	Operating System		
Max. Marks	30	Score	24

Certification Course Summary

Course	Full Stack web Development		
Certificate Provider	Udemy	Duration	19.5hrs

Coding Challenges

Problem Statement: 1] Given an array arr[] of the positive integers of size N, the task is to find the largest element on the left side of each index which is smaller than the element present at that index.
Note: If no such element is found then print -1.

2] Python program to find digital root of a number

Status:executed

Uploaded the report in Github	Yes
If yes Repository name	https://github.com/alvas-education-foundation/Disha_Shetty
Uploaded the report in slack	Yes

Online Test Details: (Attach the snapshot and briefly write the report for the same)

Certification Course Details: (Attach the snapshot and briefly write the report for the same)

Coding Challenges Details: (Attach the snapshot and briefly write the report for the same)

Online test

The screenshot shows a web browser window with multiple tabs open at the top. The active tab is for 'techgig.com/challenge/result/problems/N0dodm1kQlpsNzhpOUpFTVBuckVvQT09'. The main content area displays a 'Test Completed!' message with a dark purple background. It includes a 'Logout' link in the top right corner. Below the message, there's a 'Rate this Test' section with a 5-star rating and a 'Click to Rate' button. The main results section has two cards: one for 'Test 2 submitted' showing a score of 10/12, and another for 'Test 1 submitted' showing a score of 14/18. There are also 'PROBLEMS' and 'MCQ' sections with 'Your Score' labels.

Category	Score	Max Score
Test 2 submitted (PROBLEMS)	10	12
Test 1 submitted (MCQ)	14	18

Certification progress

The screenshot shows a web browser window for the Udemy course 'Become A Full Stack Web Developer - Beginner To Advanced'. The progress bar indicates 163 of 172 complete. The course structure is visible on the right side:

- Section 14: Checkout and Stripe**
7 / 7 | 1hr 6min
 - 161. Checkout Controller (4min)
 - 162. Dynamic cart contents in Checkout page (3min)
 - 163. Stripe for Payment (22min)
 - 164. Updating Cart (25min)
 - 165. Adding orders to database (11min)
 - 166. Summary (1min)
 - 167. Site Template** (1min) [Resources]
- Section 15: Final Touches**
0 / 3 | 26min
- Section 16: Conclusion**
0 / 2 | 6min

On the left, the course content includes:

- Site Template**: Attached is the Site Template!
- Resources for this lecture**: front.zip
- About this course**: In this complete course you will learn step-by-step how to become a full stack web developer from scratch today!

At the bottom, a PDF document titled 'WebDevelopment.pdf' is displayed, showing a 'Certificate of Completion' for Disha. The certificate is framed with a blue decorative border and contains the following text:

Certificate of Completion

This is to certify that **Disha** successfully completed **19.5 total hours of Become A Full Stack Web Developer - Beginner To Advanced** online course on **May 26, 2020**

Joe Parys Shahzaib Kamal Muhammad Javed Joe Parys Support
Joe Parys, Instructor Shahzaib Kamal, Instructor Muhammad Javed, Instructor Joe Parys Support, Instructor

& **#BeAble**

Certificate no: UC-773ae3f4b28-45af-e39f-019c0d808edc
Certificate url: https://www.udemy.com/api-2.0/courses/10226616/certificates/UC-773ae3f4b28-45af-e39f-019c0d808edc

Coding challenge output

1]

The screenshot shows a Google Colab notebook titled "Untitled5.ipynb". The code cell contains the following Python script:

```
n = int(input("Enter the number\n"))
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))
```

The output cell shows the user input "Enter the number" followed by "5", and the resulting output "1+2+3+4+5= 15".

2]

The screenshot shows a Google Colab notebook titled "Untitled6.ipynb". The code cell contains the following Python script:

```
num = input("Enter your number: ")
print(num, "\n")

def droot(num):
    if len(num) == 1:
        return num
    else:
        sum = 0
        for i in num:
            sum += int(i)
        num = str(sum)

    return droot(num)

print("The digital root of ", num, " is: ", droot(num))
```

The output cell shows the user input "Enter your number: 3689" and the resulting output "The digital root of 3689 is: 8".

DAILY ONLINE ACTIVITIES SUMMARY

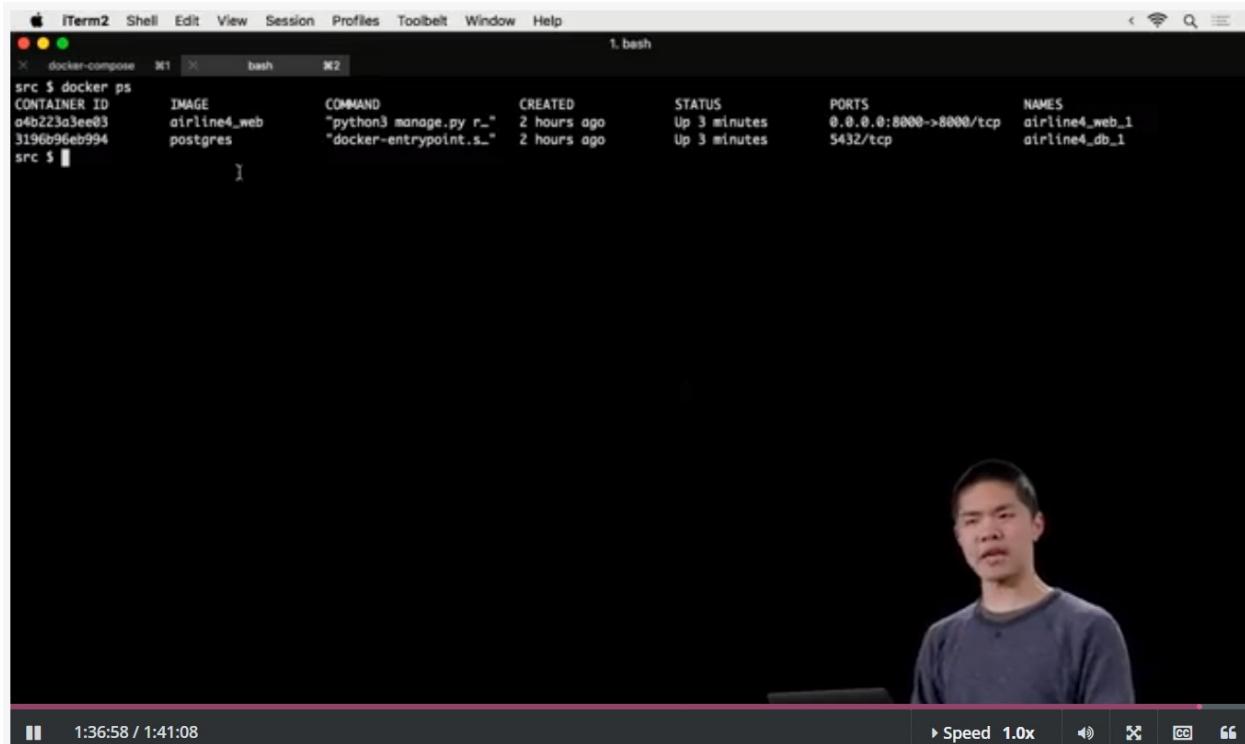
Sathvik R Shetty

Date:	28/05/2020		Name:	Sathvik R Shetty		
Sem & Sec	6th /B		USN:	4AL17CS089		
Online Test Summary						
Subject	OS IA Test - 2					
Max. Marks	30	Score	N.A(Technical Problem)			
Certification Course Summary						
Course	Web Development with Python and JavaScript					
Certificate Provider	Harvard University	Duration	12weeks			
Coding Challenges						
Problem Statement:						
1. Python Program to print the greatest integer in the list without using sort().						
2. Python Program to find digital root of a number.						
Status: Completed						
Uploaded the report in GitHub	Yes					
If yes Repository name	<u>https://github.com/sathvikshetty22/Online-Coding</u>					
Uploaded the report in slack	Yes					

Online Certification Details

Lesson

- Testing, CI/CD



Coding Challenge Details

1. Python Program to print the greatest integer in the list without using sort().

```
1 l = []
2 n = int(input("Enter the size of the list\n"))
3 print("Enter the elements")
4 for i in range(n):
5     x = int(input())
6     l.append(x)
7 print("The greatest number in the list is = ", max(l)
```

```
x Terminal
Enter the size of the list
4
Enter the elements
56
76
23
68
The greatest number in the list is = 76
Process finished.
```

2. Python Program to find digital root of a number.

```
1 n = int(input("Enter the digit\n"))
2 def digital_root(n):
3     m = len(str(n))
4     s=0
5     for i in range(m):
6         s = s+ n%10
7         n = n//10
8     print(s)
9     if(len(str(s))>1):
10         return(digital_root(s))
11 digital_root(n)
12
13
```

```
x Terminal
Enter the digit
1426278399181
61
7
Process finished.
```

DAILY ONLINE ACTIVITIES SUMMARY

Shilpa S.U

Date:	28 MAY2020	Name:	Shilpa S.U
Sem & Sec	VI & B	USN:	4AL17CS090

Online Test Summary

Subject	Operating System		
Max. Marks	30	Score	24

Certification Course Summary

Course	Machine Learning with Python		
Certificate Provider	CognitiveClass	Duration	15 hours

Coding Challenges

Problem Statement: 1)Write a Java program to get to know the balanced bracket if its balanced it will print true or else print false.

2)Write a Python program to get the digit root of a given number until it becomes single digit.

Status: Done

Uploaded the report in Github	Yes
If yes Repository name	Daily status
Uploaded the report in slack	Yes

Online Test Details: (Attach the snapshot and briefly write the report for the same)

The screenshot shows a web browser window with the URL techgig.com/challenge/result/problems/TkRhY2tuNlIIEb0g0Vnkza0JmdnMyUT09. The title bar includes tabs for "Google Account", "to join os test 2 - shilpagowda.0812@gmail.com", and "Largest Tech Community | Hackathon". The main content area displays a "Test Completed!" message with the subtext "You have successfully participated in OS-17CS64-TEST 2." Below this, there is a "Rate this Test" section showing a rating of ★★★★☆ and a link to "Click to Rate". A large central box titled "Results" contains two sections: "Test 2 submitted" (MCQ, score 10/12) and "Test 1 submitted" (MCQ, score 14/18). The bottom of the screen shows a Windows taskbar with icons for Start, Search, File Explorer, Mail, Google Chrome, and others, along with system status indicators like battery level, signal strength, and date/time (28-05-2020).

Certification Course Details: (Attach the snapshot and briefly write the report for the same)

1.

The screenshot shows a presentation slide titled "Recommender Systems" by Saeed Aghabozorgi. The slide features a background graphic of blue and white abstract shapes. On the right side, there is a vertical sidebar with text about Netflix's recommendation engine and social media recommendations. At the bottom left is the "COGNITIVE CLASS" logo, and at the bottom center is the copyright notice "© IBM Corporation. All rights reserved." The slide has a dark footer bar.

Netflix's website
is driven by customer selection. If a certain movie gets viewed frequently enough, Netflix's recommender system ensures that that movie gets an increasing number of recommendations.
Another example can be found in a daily-use mobile app, where a recommender engine is used to recommend anything from where to eat or, what job to apply to.
On social media, sites like Facebook or LinkedIn, regularly recommend friendships.
Recommender systems are even used to personalize your experience on the web.
For example, when you go to a news platform website, a recommender system will make note of the types of stories that you clicked on and make recommendations on which types of stories you might be interested in reading, in future.
There are many of these types of examples and they are growing in number.

2.



3.

CONTENT-BASED FILTERING

Recommendation systems are a collection of algorithms used to recommend items to users based on information taken from the user. These systems have become ubiquitous can be commonly seen in online stores, movies databases and job finders. In this notebook, we will explore Content-based recommendation systems and implement a simple version of one using Python and the Pandas library.

Table of contents

- Acquiring the Data
- Preprocessing
- Content-Based Filtering

Acquiring the Data

To acquire and extract the data, simply run the following Bash scripts:
Dataset acquired from GroupLens. Lets download the dataset. To download the data, we will use `!wget`. To download the data, we will use `!wget` to download it from IBM Object Storage. Go to PC settings to activate Windows.

BRIEF REPORT:

3. Recommender systems try to capture these patterns and similar behaviors, to help predict what else you might like.

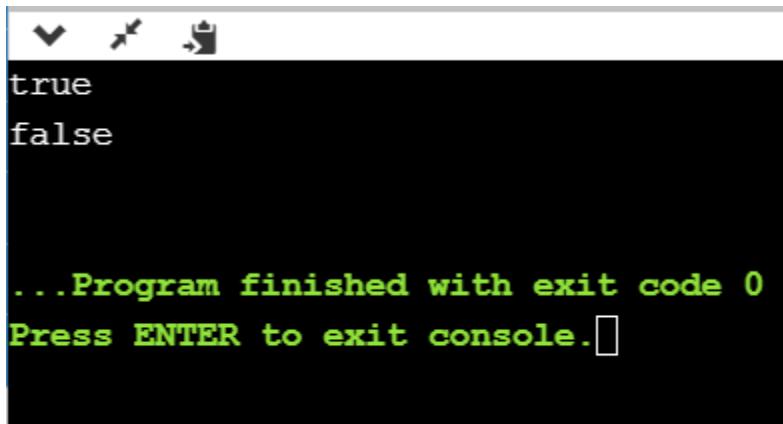
* Recommender systems have many applications that I'm sure you're already familiar with. Indeed, Recommender systems are usually at play on many websites. For example, suggesting books on Amazon and movies on Netflix.

4. In fact, everything on Netflix's website is driven by customer selection. If a certain movie gets viewed frequently enough, Netflix's recommender system ensures that that movie gets an increasing number of recommendations.

5. Recommendation systems are a collection of algorithms used to recommend items to users based on information taken from the user. These systems have become ubiquitous can be commonly seen in online stores, movies databases and job finders. In this notebook, we will explore Content-based recommendation systems and implement a simple version of one using Python and the Pandas library

Coding Challenges Details: (Attach the snapshot and briefly write the report for the same)

1

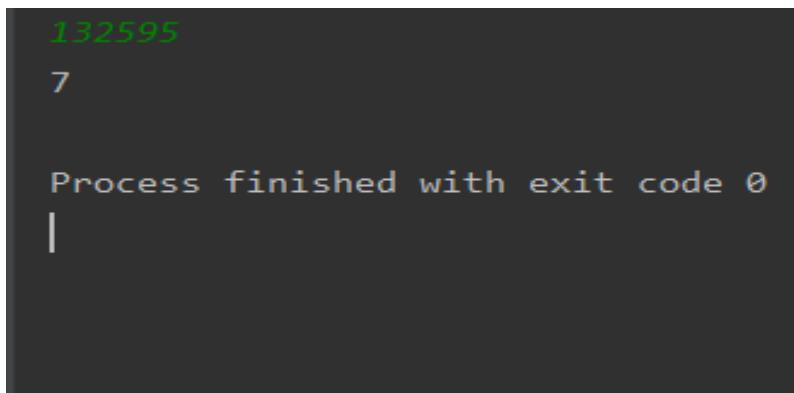


```
true
false

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

This program checks for equal no of brackets is open and closed if so it prints true or else return false

2.



```
132595
7

Process finished with exit code 0
|
```

This python program is to get digitroot of the number where we give a random number and until it become complete single digit it goes on calculate

3.

```
1

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

This c program prints last remaining element in array

4.

```
Result
Today's date: May 28, 2020 11:29:38 AM
```

JSP program to print current date and time.

5.

```
Result
Welcome Visitor
Visitor Number : 1.
```

Jsp program to print number of visitor visited the site.

Format for uploading details in Github and Slack in word file format

28/5/20

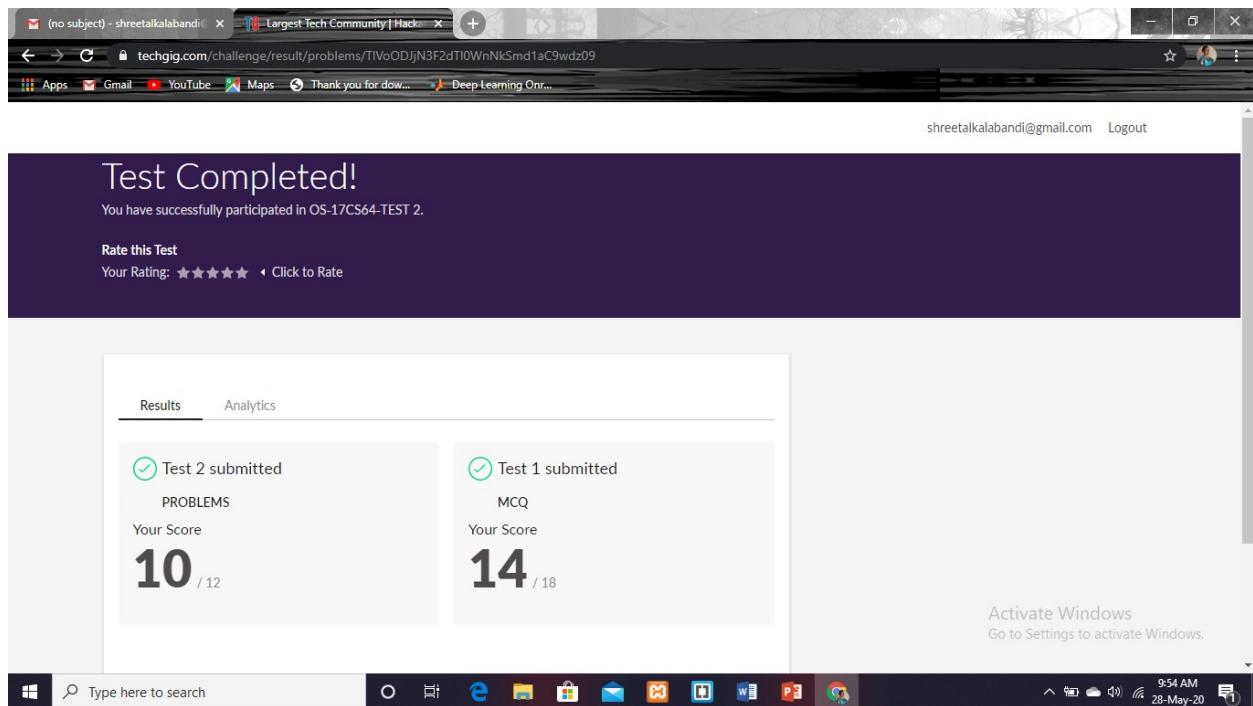
Student Name : Shreetal Kalabandi

Class and Sec : VI B

USN : 4AL17CS091

Online Test Details			
Subject	Operating System		
Semester	VI - B	Duration	50 Minutes
80%		24/30	

Encl : snapshot of the test result



Certification Course Details			
Course	Python for Data science		
Certificate Provider	Cognitiveclass.ai	Duration	6 hours

Encl : snapshots of the daily class activities (atleast two snap shots)

Progress on 28-05-2020

Screenshot of a web browser showing a programming exercise on cognitiveclass.ai.

Question 1
1/1 point (graded)
What is the syntax to obtain the first element of the tuple:
A=('a','b','c')

A[1]
 A[0] ✓
 A[:]

Submit You have used 1 of 2 attempts **Save**

Correct (1/1 point)

Activate Windows
Go to Settings to activate Windows.

Question 2

Type here to search



What is an important difference between lists and tuples?

Lists can't contain a string

Tuples can only have integers

Lists and tuples are the same.

Lists are mutable tuples are not ✓

There is no zeros in lists

Submit You have used 1 of 2 attempts Save

✓ Correct (1/1 point) Activate Windows
Go to Settings to activate Windows.



Dict={"A":1,"B":"2","C":[3,3,3],"D":(4,4,4),'E':5,'F':6}

, what is the result of the following operation: **Dict["D"]**

4

3

[3,3,3]

(4, 4, 4) ✓

error

Submit You have used 1 of 2 attempts Activate Windows
Go to Settings to activate Windows. Save



Coding Challenges	
Problem Statement: Pro1(python), Pro2(java), Pro3(java), Pro4(jsp), Pro5(jsp)	
.	
Status: Completed	
Uploaded the report both in Github & Slack	Yes

Encl : snapshots of your response to challenge.

```
C:\Users\vijay\PycharmProjects\28\05\venv\Scripts\python.exe
Enter the number:132189
The digital root of 132189 is: 6

Process finished with exit code 0
```

```
Enter your String to check:  
('()[]{}(([[])){[()][]}')  
Balanced
```

```
Enter your String to check:  
([(()[]){}])  
Unbalanced
```

```
Enter the no. of elements:  
5  
Enter the elements into array  
1 2 3 4 5  
Enter the k value:  
7  
1
```

The screenshot shows a browser window with the following details:

- Tab titles: pranavlm/DAILY-STATUS, Java-education-foundation/3rd, Print current date & time - JSP P, Online Jsp Compiler - Online Jsp.
- URL: tutorialspoint.com/execute.jsp_online.php
- Left Panel (Code Area):
 - File: index.jsp
 - Content:

```
1 <html>
2   <head><title>JSPApp</title></head>
3   <body>
4     <form>
5       <fieldset style="width:50%; background-color: #ccffeb;">
6         <legend><b>JSP Application:</b></legend>
7         <h3>Current Date and Time is :</h3>
8         <% java.util.Date d = new java.util.Date();
9             out.println(d.toString()); %>
10        </fieldset>
11      </form>
12    </body>
13  </html>
```
- Right Panel (Result Area):
 - Section: JSP Application
 - Output:

```
Current Date and Time is :
Thu May 28 11:05:39 UTC 2020
```

The screenshot shows a browser window with multiple tabs open. The active tab is titled "Execute JSP Online (Railo)". The page content displays a JSP scriptlet that counts visitors. The output panel shows the result: "Count visitor" followed by "Welcome to my website!!" and "You are visitor number: 7".

```
<%@ page import="java.io.*;java.util.*" %>
<html>
    <head>
        <title>Count visitor</title>
    </head>
    <body>
        <form>
            <fieldset style="width:50%; background-color:#e6f2ff;">
                <legend>Count visitor</legend>
                <%
                    Integer hitsCount =
                        (Integer)application.getAttribute("hitCounter");
                    if( hitsCount ==null || hitsCount == 0 )
                    {
                        /* first visit */
                        out.println("Welcome to my website!!");
                        hitsCount = 1;
                    }
                    else
                    {
                        /* return visit */
                        out.println("Welcome to my website!!");
                        hitsCount += 1;
                    }
                    application.setAttribute("hitCounter", hitsCount);
                %>
                <p>You are visitor number: <%= hitsCount%></p>
            </fieldset>
        </form>
    </body>
</html>
```

Format for uploading details in Github and Slack in word file format

28/5/20

Student Name : Shrinivasa

Class and Sec : VI B

USN : 4AL17CS092

Online Test Details			
Subject	Operating System		
Semester	VI - B	Duration	50 Minutes
83%		25/30	

Encl : snapshot of the test result

Test Completed!

You have successfully participated in OS-17CS64-TEST 2.

[Rate this Test](#)

Your Rating: ★★★★★ ⌂ Click to Rate

[Results](#)[Analytics](#)

Test 2 submitted

PROBLEMS

Your Score

10 / 12

Test 1 submitted

MCQ

Your Score

15 / 18

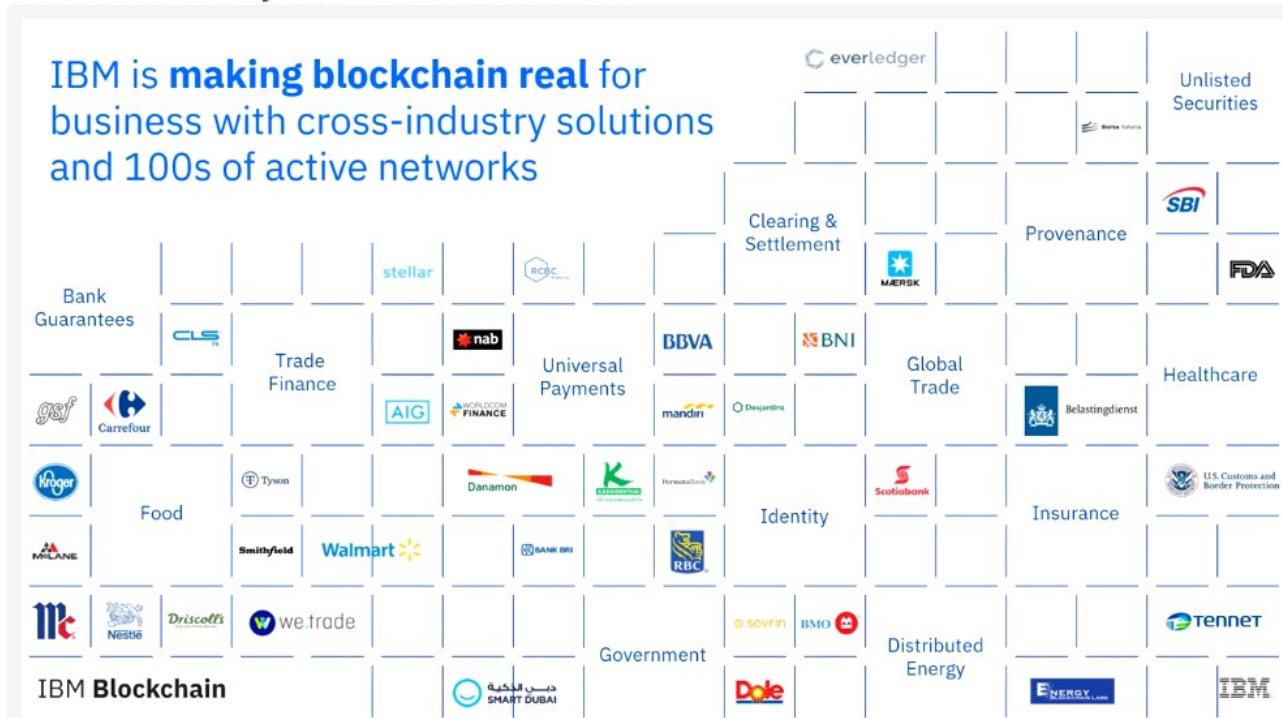
Certification Course Details

Course	Blockchain Essentials		
Certificate Provider	Cognitiveclass.ai	Duration	6 hours

Encl : snapshots of the daily class acitivities (atleast two snap shots)

Progress on 28-05-2020

An overview of key IBM Blockchain solutions



TradeLens Improves global trade efficiency

Overview

- TradeLens is an open, extensible platform for sharing shipping events, messages, and documents across all the actors and systems in the supply chain ecosystem
- Provides Shared Visibility and Shared State for Container Shipments

Benefits

- Increase speed and transparency for cross border transactions through real time access to container events
- Reduced cost and increased efficiency through paperless trade

IBM Blockchain



Financial	Public Sector	Retail	Insurance	Manufacturing
<ul style="list-style-type: none"> • Trade Finance • Cross currency payments • Mortgages • Letters of Credit 	<ul style="list-style-type: none"> • Asset Registration • Citizen Identity • Medical records • Medicine supply chain 	<ul style="list-style-type: none"> • Supply chain • Loyalty programs • Information sharing (supplier – retailer) 	<ul style="list-style-type: none"> • Claims processing • Risk provenance • Asset usage history • Claims file 	<ul style="list-style-type: none"> • Supply chain • Product parts • Maintenance tracking

IBM Blockchain



Coding Challenges	
Problem Statement: Pro1(python), Pro2(java), Pro3(java), Pro4(jsp), Pro5(jsp)	
-	
Status: Completed	
Uploaded the report both in Github & Slack	Yes

Encl : snapshots of your response to challenge.

```
C:\Users\vijay\PycharmProjects\28\05\venv\Scripts\python.exe
Enter the number:132189
The digital root of 132189 is: 6

Process finished with exit code 0
```

Enter your String to check:
('()'{}(([[])){{()}}[]})
Balanced

Enter your String to check:
([{}))[]{}])
Unbalanced

```

Enter the no. of elements:
5
Enter the elements into array
1 2 3 4 5
Enter the k value:
7
1

```

Execute | Share | index.jsp

```

1 <html>
2   <head><title>JSPApp</title></head>
3   <body>
4     <form>
5       <fieldset style="width:50%; background-color: #cccccc;">
6         <legend><b>JSP Application</b></legend>
7         <h3>Current Date and Time is :</h3>
8         <java.util.Date d = new java.util.Date();>
9           <out.println(d.toString());>
10      </fieldset>
11    </form>
12  </body>
13 </html>

```

Result

JSP Application

Current Date and Time is :

Thu May 28 11:05:39 UTC 2020

Execute | Share | index.jsp

```

1 <%@page import="java.io.*;java.util.*;" %>
2 <html>
3   <head>
4     <title>Count visitors</title>
5   </head>
6   <body>
7     <form>
8       <fieldset style="width:50%; background-color:#e6f2ff;">
9         <legend>Count visitors</legend>
10        <%
11          Integer hitsCount =
12            (Integer)application.getAttribute("hitCounter");
13          if( hitsCount ==null || hitsCount == 0 )
14          {
15            /* first visitor */
16            <out.println("Welcome to my website!");>
17            hitsCount = 1;
18          }
19          else
20          {
21            /* return visit */
22            <out.println("You come to my website!");>
23            hitsCount += 1;
24          }
25        <%
26        application.setAttribute("hitCounter", hitsCount);
27      </fieldset>
28    </form>
29  </body>
30 </html>

```

Result

Count visitor

Welcome to my website!

You are visitor number: 7

DAILY ONLINE ACTIVITIES SUMMARY

Date:	28-05-2020		Name:	SHWETHA M S		
Sem & Sec	6 th and B		USN:	4AL17CS093		
Online Test Summary						
Subject	OS (2 ND IA TEST)					
Max. Marks	30	Score	23			
Certification Course Summary						
Course	PYTHON FOR MACHINE LEARNING					
Certificate Provider	Greatlearning academy	Duration	1 WEEK			
Coding Challenges						
Problem Statement: GIVEN 2 PROBLEMS						
Status: Completed						
Uploaded the report in Github		Yes				
If yes Repository name		https://github.com/ShwethaKhadri/Shwetha-M-S.git				
Uploaded the report in slack		Shwetha M S Yes, I uploaded the report in slack				

SNAPSHOT OF SECOND IA TEST MARKS:

The screenshot shows a web browser window with the TechGig challenge results page. The URL in the address bar is techgig.com/challenge/result/problems/Zm1QRTRPc3prY3cvUnArZGg2WmRxQT09. The main content area displays a purple banner with "Test Completed!" and a message indicating successful participation in OS-17CS64-TEST 2. Below this, there is a rating section with a 5-star rating and a "Click to Rate" link. The main results section is titled "Results" and contains two cards: one for "Test 2 submitted" (problems, score 10/12) and one for "Test 1 submitted" (MCQ, score 13/18). The "Analytics" tab is also visible at the top of the results section.

Largest Tech Community | Hackathon

techgig.com/challenge/result/problems/Zm1QRTRPc3prY3cvUnArZGg2WmRxQT09

Apps New Tab (PDF) Automatic Ric... 101 Computer Shortcuts IOT based Smart A... rapery pi (PDF) An overview... State-of

Test Completed!

You have successfully participated in OS-17CS64-TEST 2.

Rate this Test

Your Rating: ★★★★★ Click to Rate

Results Analytics

Test 2 submitted

PROBLEMS

Your Score

10 / 12

Test 1 submitted

MCQ

Your Score

13 / 18

SNAPSHOT OF ONLINE CERTIFICATION COURSE:

SCREENSHOT1:

The screenshot shows a web browser window with the URL olympus.greatlearning.in/courses/10899/pages/saving-and-loading-numpy-arrays-2?module_item_id=568669. The page title is "Saving & loading NumPy Arrays". On the left, there is a sidebar with a "Content" section containing a tree view of the course structure under "Python for Machine Learning - Overview". The main area displays a Jupyter notebook titled "numpy_examples.ipynb" with code demonstrating how to save and load NumPy arrays. A video player in the bottom right corner shows a man speaking.

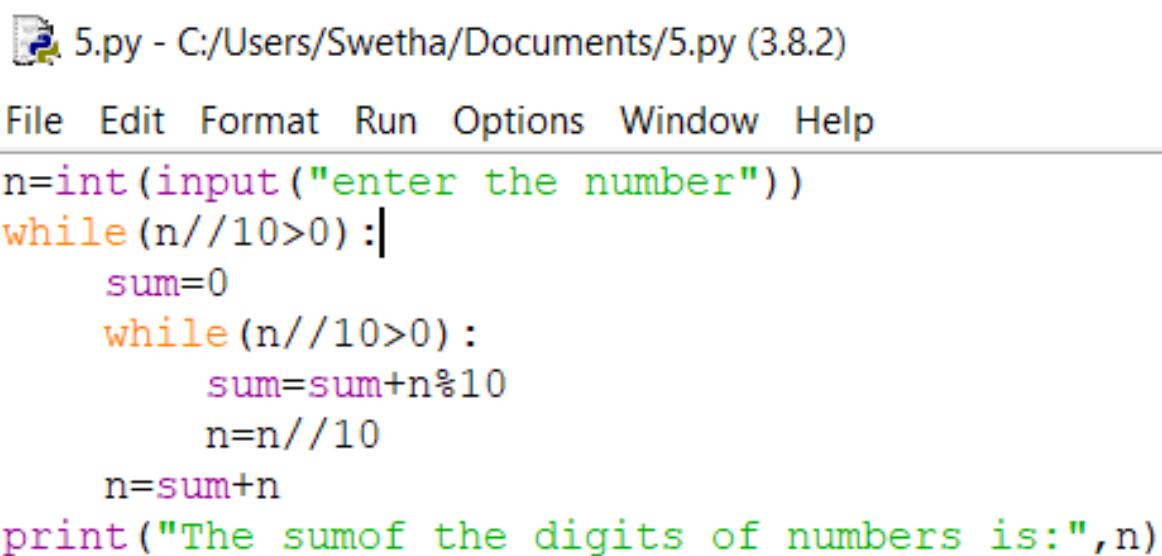
SCREENSHOT2:

The screenshot shows a web browser window with the URL olympus.greatlearning.in/courses/10899/pages/pandas-introduction-2?module_item_id=565941. The page title is "Pandas - Introduction-4". The left sidebar shows a tree view of course content, including "numpy_examples.ipynb", "Pandas - Introduction-4", and "pandas_example.ipynb". The main area displays a Jupyter notebook titled "pandas_example.ipynb" with code and explanatory text about Pandas. A video player in the bottom right corner shows a man speaking.

SNAPSHOT OF ONLINE CODING:

PYTHON PROGRAM 1:

A digital root is the recursive sum of all the digits in a number. Given n, take the sum of the digits of n. If that value has more than one digit, continue reducing in this way until a single-digit number is produced. This is only applicable to the natural numbers.



```
5.py - C:/Users/Swetha/Documents/5.py (3.8.2)
File Edit Format Run Options Window Help
n=int(input("enter the number"))
while(n//10>0):
    sum=0
    while(n//10>0):
        sum=sum+n%10
        n=n//10
    n=sum+n
print("The sum of the digits of numbers is:",n)
```

OUTPUT:

The screenshot shows a Python 3.8.2 Shell window. The title bar says "Python 3.8.2 Shell". The menu bar includes "File", "Edit", "Shell", "Debug", "Options", "Window", and "Help". The main area displays the following text:

```
C:/Users/Swetha/Documents/5.py (3.8.2)
Format Run Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
=====
RESTART: C:/Users/Swetha/Documents/5.py =====
enter the number123789
The sumof the digits of numbers is: 3
>>>
```

C++ PROGRAM:

The rules for reducing the array are:

#The first and last element say X and Y are chosen and removed from the array arr[].
#The values X and Y are added. Z = X + Y.
#Insert the value of Z % K into the array arr[] at the position ((N/2) + 1)th position, where N denotes the current length of the array.

Examples:

Input: N = 5, arr[] = {1, 2, 3, 4, 5}, K = 7

Output: 1

The screenshot shows a code editor window with the file 'main.cpp' open. The code implements a function to find the sum of elements in an array and then returns the sum modulo k. The main function demonstrates this by calculating the sum of the array [12, 4, 13, 0, 5] and printing the result.

```
6 ****
7 ****
8 ****
9 #include <iostream>
10 using namespace std;
11
12 int find_value(int a[], int n, int k)
13 {
14     int sum = 0;
15
16
18     for (int i = 0; i < n; i++) {
19         sum += a[i];
20     }
21
22     return sum % k;
23 }
24
25
26 int main()
27 {
28     int n = 5, k = 3;
29     int a[] = { 12, 4, 13, 0, 5 };
30     cout << find_value(a, n, k);
31     return 0;
32 }
```

OUTPUT:

The screenshot shows a terminal window displaying the output of the program. The program calculates the sum of the array [12, 4, 13, 0, 5], which is 34, and then prints 34 modulo 3, which is 2. The terminal also includes a message prompting the user to press Enter to exit.

```
1
...
...Program finished with exit code 0
Press ENTER to exit console.[]
```

DAILY ONLINE ACTIVITIES SUMMARY

Date:	28-05-2020		Name:	SINDHU N		
Sem & Sec	6 th and B		USN:	4AL17CS094		
Online Test Summary						
Subject	OS (2 ND IA TEST)					
Max. Marks	30	Score	24			
Certification Course Summary						
Course	PYTHON FOR MACHINE LEARNING					
Certificate Provider	Greatlearning academy	Duration	1 WEEK			
Coding Challenges						
Problem Statement: GIVEN 2 PROBLEMS						
Status: Completed						
Uploaded the report in Github		Yes				
If yes Repository name		https://github.com/lsindhungowda/Daily-report				
Uploaded the report in slack		Sindhu N Yes, I uploaded the report in slack				

SNAPSHOT OF SECOND IA TEST MARKS:

The screenshot displays a user interface for tracking test submissions and scores. At the top, it shows the email address "sindhushavi123@gmail.com" and a "Logout" link. Below this, there are two tabs: "Results" and "Analytics", with "Results" being the active tab. Under the "Results" tab, there are two sections: "Test 2 submitted" and "Test 1 submitted". Each section includes a green circular icon with a checkmark, the test name, the score (e.g., "10 / 12" or "14 / 18"), and the category (e.g., "PROBLEMS" or "MCQ").

Test	Score	Category
Test 2 submitted	10 / 12	PROBLEMS
Test 1 submitted	14 / 18	MCQ

SNAPSHOT OF ONLINE CERTIFICATION COURSE:

SCREENSHOT1:

The screenshot shows a web browser window with the URL olympus.greatlearning.in/courses/10899/pages/saving-and-loading-numpy-arrays-2?module_item_id=568669. The page title is "Saving & loading NumPy Arrays". On the left, there is a sidebar with a "Content" section containing a tree view of the course structure under "Python for Machine Learning - Overview". The main area displays a Jupyter notebook titled "numpy_examples.ipynb" with code demonstrating how to save and load NumPy arrays. A video player in the bottom right corner shows a man speaking.

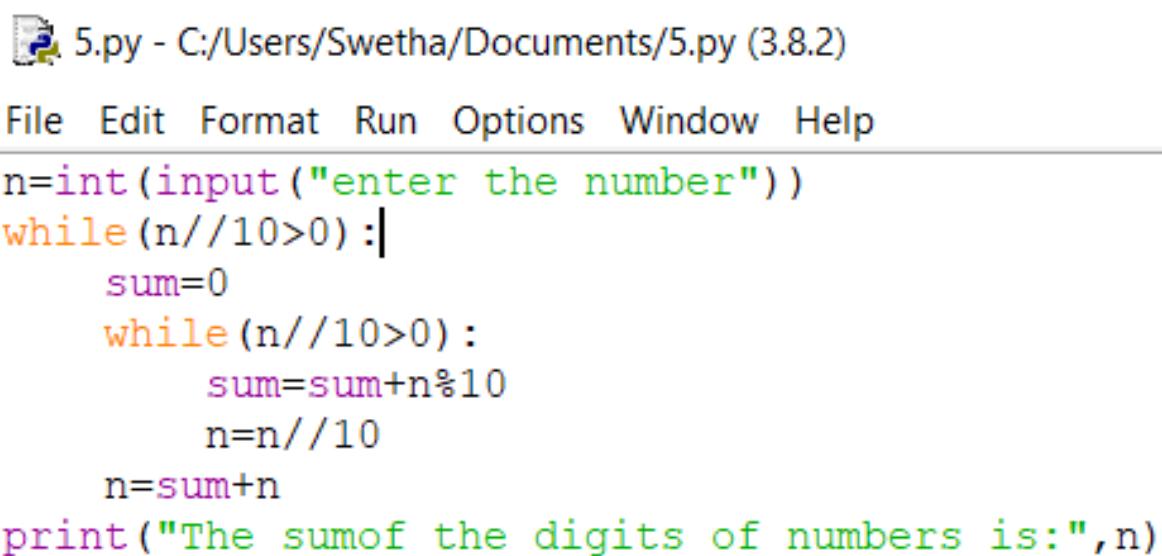
SCREENSHOT2:

The screenshot shows a web browser window with the URL olympus.greatlearning.in/courses/10899/pages/pandas-introduction-2?module_item_id=565941. The page title is "Pandas - Introduction-4". The left sidebar shows a tree view of course content, including "numpy_examples.ipynb", "Pandas - Introduction-4", and "pandas_example.ipynb". The main area displays a Jupyter notebook titled "pandas_example.ipynb" with code and explanatory text about Pandas. A video player in the bottom right corner shows a man speaking.

SNAPSHOT OF ONLINE CODING:

PYTHON PROGRAM 1:

A digital root is the recursive sum of all the digits in a number. Given n, take the sum of the digits of n. If that value has more than one digit, continue reducing in this way until a single-digit number is produced. This is only applicable to the natural numbers.



```
5.py - C:/Users/Swetha/Documents/5.py (3.8.2)
File Edit Format Run Options Window Help
n=int(input("enter the number"))
while(n//10>0):
    sum=0
    while(n//10>0):
        sum=sum+n%10
        n=n//10
    n=sum+n
print("The sum of the digits of numbers is:",n)
```

OUTPUT:

The screenshot shows a Python 3.8.2 Shell window. The title bar says "Python 3.8.2 Shell". The menu bar includes "File", "Edit", "Shell", "Debug", "Options", "Window", and "Help". The main area displays the following text:

```
C:/Users/Swetha/Documents/5.py (3.8.2)
Format Run Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
=====
RESTART: C:/Users/Swetha/Documents/5.py =====
enter the number123789
The sumof the digits of numbers is: 3
>>>
```

C++ PROGRAM:

The rules for reducing the array are:

#The first and last element say X and Y are chosen and removed from the array arr[].
#The values X and Y are added. Z = X + Y.
#Insert the value of Z % K into the array arr[] at the position ((N/2) + 1)th position, where N denotes the current length of the array.

Examples:

Input: N = 5, arr[] = {1, 2, 3, 4, 5}, K = 7

Output: 1

The screenshot shows a code editor window with the file 'main.cpp' open. The code implements a function to find the sum of elements in an array and then returns the sum modulo k. The main function demonstrates this by calculating the sum of the array [12, 4, 13, 0, 5] and printing the result.

```
6 ****
7 ****
8 ****
9 #include <iostream>
10 using namespace std;
11
12 int find_value(int a[], int n, int k)
13 {
14     int sum = 0;
15
16
18     for (int i = 0; i < n; i++) {
19         sum += a[i];
20     }
21
22     return sum % k;
23 }
24
25
26 int main()
27 {
28     int n = 5, k = 3;
29     int a[] = { 12, 4, 13, 0, 5 };
30     cout << find_value(a, n, k);
31     return 0;
32 }
```

OUTPUT:

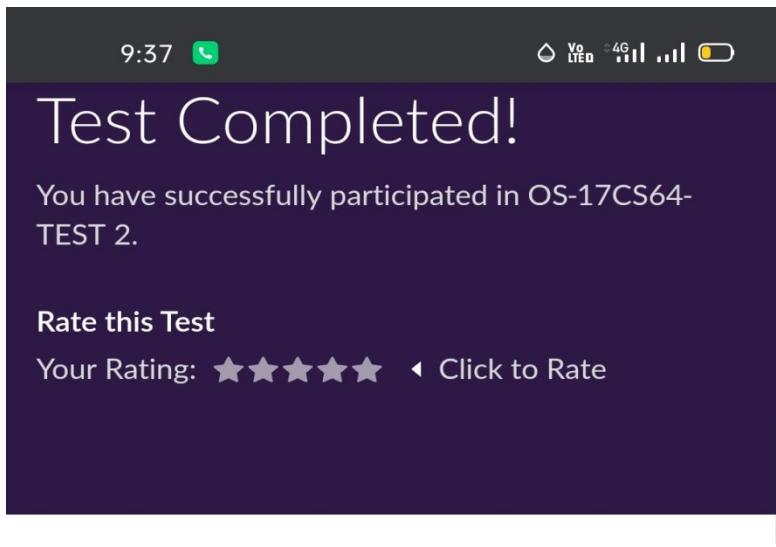
The screenshot shows a terminal window displaying the output of the program. The program calculates the sum of the array [12, 4, 13, 0, 5], which is 34, and then prints 34 modulo 3, which is 2. The terminal also includes a message prompting the user to press Enter to exit.

```
1
...
...Program finished with exit code 0
Press ENTER to exit console.[]
```

DAILY ONLINE ACTIVITIES SUMMARY

Date:	28/05/2020	Name:	Soundarya R
Sem & Sec	6 th & B	USN:	4al17cs096
Online Test Summary			
Subject	OS		
Max. Marks	30	Score	16
Certification Course Summary			
Course	Python for Machine Learning		
Certificate Provider	Great Learning Academy	Duration	5hours
Coding Challenges			
Problem Statement: 2Programs			
Status: Solved			
Uploaded the report in Github		yes	
If yes Repository name		https://github.com/ashu102/Daily-Activities	
Uploaded the report in slack		yes	

IA TEST



Results

Analytics

Test 2 submitted

PROBLEMS

Your Score

6
/ 12

Test 1 submitted

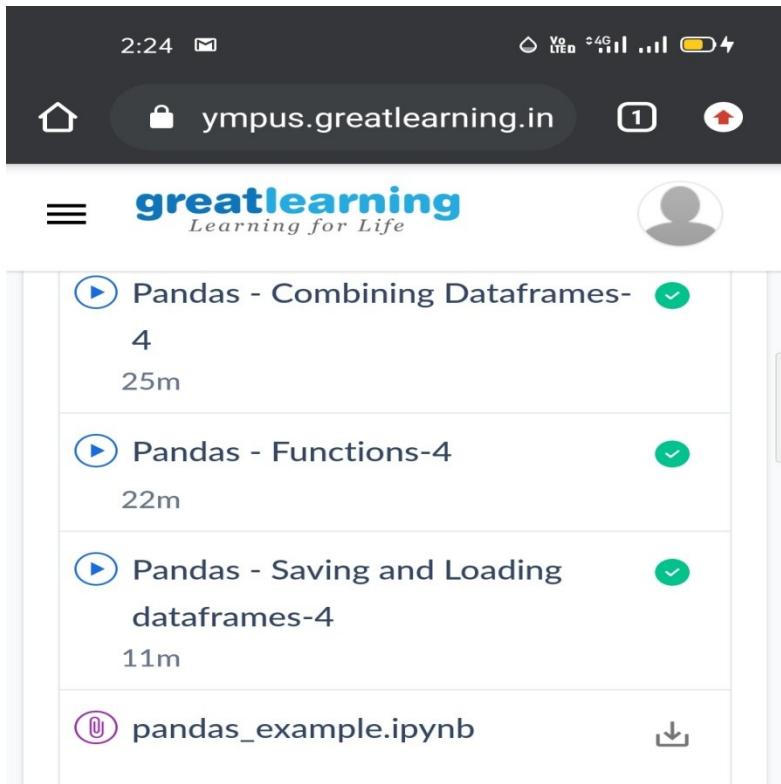
MCQ

Your Score

10
/ 18



CERTIFICATION COURSE



A screenshot of a mobile browser displaying a course list from greatlearning.in. The top bar shows the URL ympus.greatlearning.in, signal strength, battery level, and a refresh icon. The page header includes the Great Learning logo and a user profile icon. The main content area lists several video lessons:

- Pandas - Combining Dataframes- 4
25m
- Pandas - Functions-4
22m
- Pandas - Saving and Loading dataframes-4
11m
- pandas_example.ipynb

Python - Functions, Objects and Classes



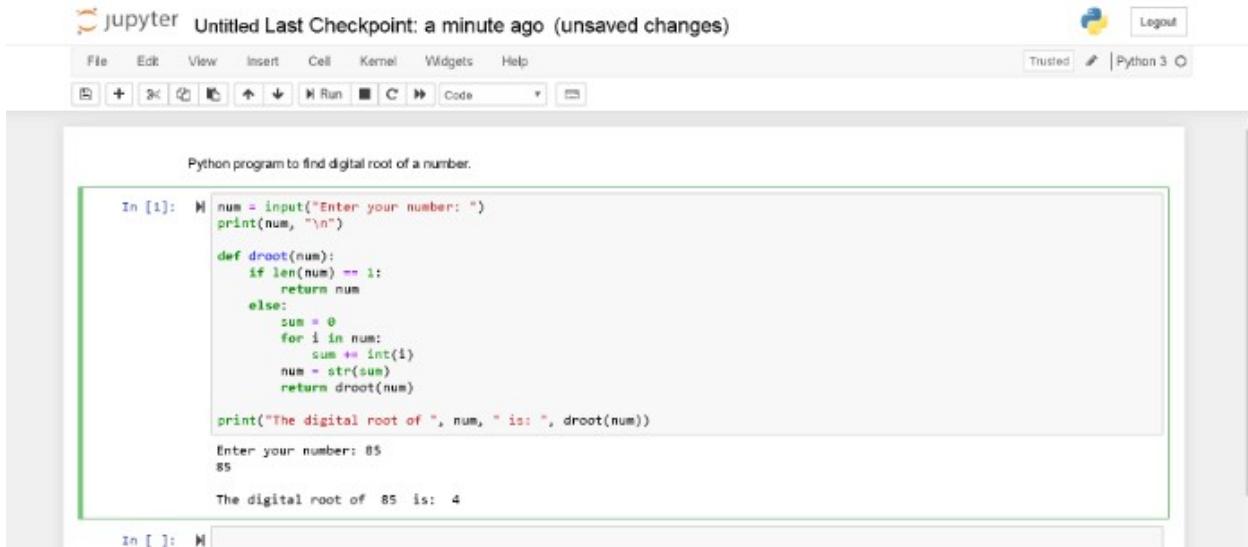
A screenshot of a mobile browser displaying a sub-course list under the heading "Python - Functions, Objects and Classes". The list includes:

- User Defined Functions
21m
- Lambda Functions
17m
- Classes and Objects
12m



ONLINE CODING

Program:



The screenshot shows a Jupyter Notebook interface with the title "jupyter Untitled Last Checkpoint: a minute ago (unsaved changes)". The menu bar includes File, Edit, View, Insert, Cell, Kernel, Widgets, and Help. The toolbar has icons for New, Open, Save, Run, Cell, Kernel, Help, and Code. The status bar indicates "Trusted" and "Python 3".

In [1]:

```
num = input("Enter your number: ")
print(num, "\n")

def droot(num):
    if len(num) == 1:
        return num
    else:
        sum = 0
        for i in num:
            sum += int(i)
        num = str(sum)
        return droot(num)

print("The digital root of ", num, " is: ", droot(num))
```

Enter your number: 85

85

The digital root of 85 is: 4

In []:

DAILY ONLINE ACTIVITIES SUMMARY

Date:	28-05-2020	Name:	SRILATHA K KAMATH
Sem & Sec	6 B	USN:	4AL17CS099
Online Test Summary			
Subject	Operating Systems IA TEST 2		
Max. Marks	30	Score	24
Certification Course Summary			
Course	Career Edge – Knockdown the Lockdown		
Certificate Provider	TCS	Duration	15days
Coding Challenges			
Problem Statement: Given n, take the sum of the digits of n. If that value has more than one digit, continue reducing in this way until a single-digit number is produced. This is only applicable to the natural numbers.			
Status: COMPLETED			
Uploaded the report in Github	YES		
If yes Repository name	https://github.com/alvas-education-foundation/Srilatha-K-Kamath-Daily-Report.git		
Uploaded the report in slack	YES		

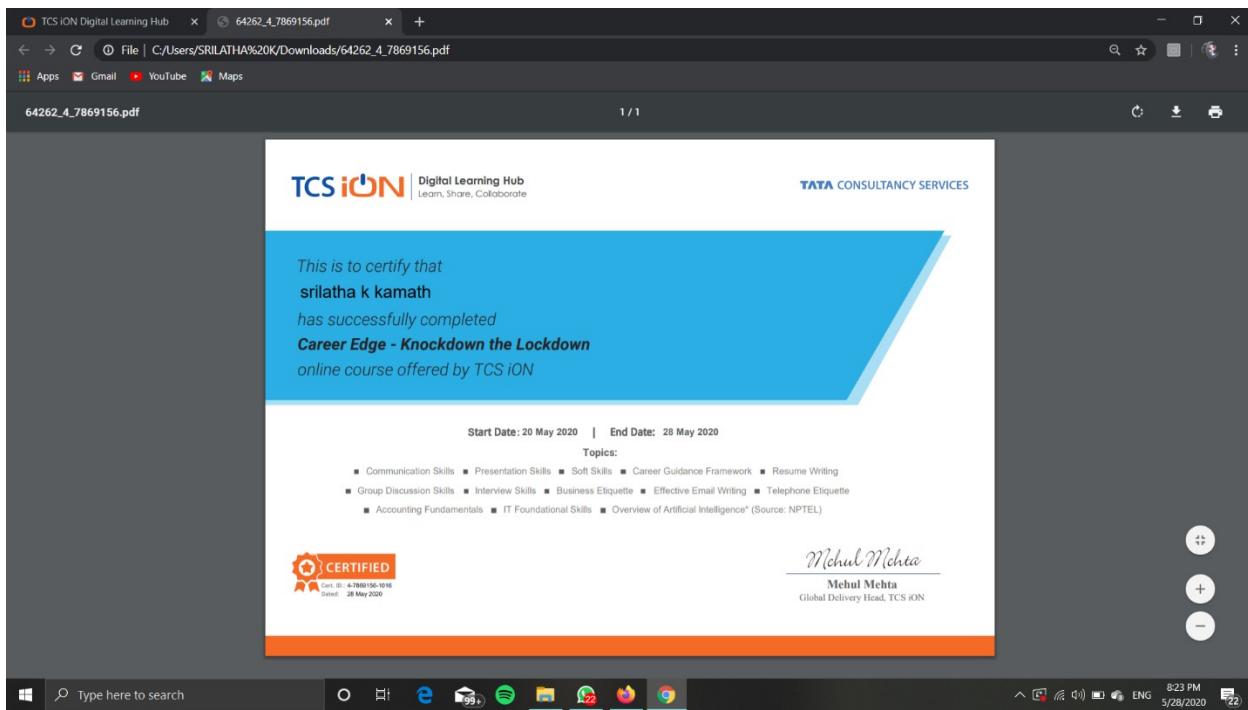
Online Test Details:

The screenshot shows a web browser window with the URL techgig.com/challenge/result/problems/VUFZWF9LUGFYnNZY21S1IydtU1UT09. The title bar indicates "OS TEST LINK IA 2 - srilathakkam". The main content area displays a "Test Completed!" message with the subtext "You have successfully participated in OS-17CS64-TEST 2." Below this, there is a "Rate this Test" section showing a rating of ★★★★☆ and a link to "Click to Rate". The "Results" tab is selected, showing two sections: "Test 2 submitted" (MCQ, Your Score 10 / 12) and "Test 1 submitted" (MCQ, Your Score 14 / 18). The browser's taskbar at the bottom shows various pinned icons like Apps, Gmail, YouTube, and Maps.

Online Course Details: Completed Course and obtained the certificate.

The screenshot shows a web browser window with the URL g41.tcsion.com/lx/contents/content_home?content_player=true&org_id=1016&TargetOrgId=3876&usrorgid=1016&LaunchFrom=iHUB&User-Agent=Computer&c_id=career-edge-knockdown.... The title bar indicates "TCS iON Digital Learning Hub". The main content area displays a "TABLE OF CONTENTS" on the left and a "Career Edge - Knockdown the Lockdown : Batch 01" summary on the right. The summary includes "Final Assessment" details: Total Marks 30.0, Pass Marks 18.0, Attempts Taken 01, Duration 30 Mins, Start Time 20 May 2020 12:00 AM TO 19 Jul 2020 12:00 AM, and a note "View Assessment Analysis Already cleared assessment." Below this is a "My Attempts" table with one entry: Attempted On 28 May 2020 07:39 PM, Attempted Duration (Submission Time) 0:21:22 Hrs(08:00 PM), Marks Obtained 26.0/30.0, Status Pass, and Action (button). The browser's taskbar at the bottom shows various pinned icons like Apps, Gmail, YouTube, and Maps.

Posted the certificate in github repository.



Online Coding Details:

```
Given n, take the sum of the digits of n. If that value has more than one digit, continue reducing in this way until a single-digit number is produced.
def digital_root(num):
    if(num<10):
        return num
    else:
        return digital_root((num%10)+digital_root(num//10))
num=int(input('Enter the num '))
print(digital_root(num))
```



The screenshot shows a web-based JSP compiler interface. On the left, the code for 'index.jsp' is displayed:

```
<%@ page import="java.io.* ,java.util.*" %>
<!DOCTYPE html>
<html>
    <head>
        <title>Count visitor</title>
    </head>
    <body>
        <form>
            <fieldset style="width:50%; background-color:#e6ffe6;">
                <legend>Count visitor</legend>
                <%
                    Integer hitsCount =
                        (Integer)application.getAttribute("hitCounter");
                    if( hitsCount ==null || hitsCount == 0 )
                    {
                        /* first visit */
                        out.println("Welcome to my website!!!");
                        hitsCount = 1;
                    }
                    else
                    {
                        /* return visit */
                        out.println("Welcome to my website!!!");
                        hitsCount += 1;
                    }
                    application.setAttribute("hitCounter", hitsCount);
                %>
            <p>You are visitor number: <%= hitsCount%></p>
        </form>
    </body>
</html>
```

The right panel shows the execution result:

Count visitor
Welcome to my website!!
You are visitor number: 7

The status bar at the bottom of the browser window shows 'JioSavv'.

Format for uploading details in Github and Slack in word file format

28/5/20

Student Name : Suhas M S

Class and Sec : VI B

USN : 4AL17CS100

Online Test Details			
Subject	Operating System		
Semester	VI - B	Duration	50 Minutes
73%		22/30	

Encl : snapshot of the test result

Certification Course Details			
Course	Blockchain Essentials		
Certificate Provider	Cognitiveclass.ai	Duration	6 hours

Encl : snapshots of the daily class acitivities (atleast two snap shots)

Progress on 28-05-2020



Coding Challenges	
Problem Statement: Pro1(python), Pro2(java), Pro3(java), Pro4(jsp), Pro5(jsp) .	
Status: Completed	
Uploaded the report both in Github & Slack	Yes

Encl : snapshots of your response to challenge.



Format for uploading details in Github and Slack in word file format

(Fill this format(docx) daily and upload it in both Github and Slack)

28/5/20

Student Name : SURYA PRAKASH S

Class and Sec : VI B

USN : 4AL17CS101

Online Test Details			
Subject	Operating System		
Semester	VI -B	Duration	35 Minutes
% of marks		80	

Encl : snapshot of the test result

Challenge Over

OS-17CS64-TEST 2



 by TechGig

Test 1
MCQ
Your Highest Score 14
Max Score 18
Start Test

Test 2
PROBLEMS
Your Highest Score 10
Max Score 12
Start Test

Certification Course Details			
Course	Python for Data Science		
Certificate Provider	Cognitiveclass.ai	Duration	06 hours

Encl : snapshots of the daily class activities (atleast two snap shots)

[Home](#) [Courses.cognitiveclass.ai](#) [4](#) [More](#)

Course Discussion Wiki Resources Progress

Course Progress for Student 'SPS' (suryaprakash01071999@gmail.com)

Section	Progress (%)
RQ01	100%
RQ02	100%
RQ03	0%
RQ04	0%
RQ05	0%
RQ06	~50%
Final	20%
Total	20%

Welcome! [Welcome to Python 101 for Data Science! \(2:28\)](#)
No problem scores in this section

About this course

- [General Information](#)
No problem scores in this section
- [Learning Objectives](#)
No problem scores in this section
- [Syllabus](#)
No problem scores in this section
- [Grading Scheme](#)
No problem scores in this section
- [Copyrights and Trademarks](#)
No problem scores in this section

Course Discussion Wiki Resources Progress

Course > Module 2 - Python Data Structures > Dictionaries (2:24) > Dictionaries (2:24)

< Previous [Print](#) Next >

Dictionaries (2:24)

[Bookmark this page](#)

Dictionaries (2:24)

"Thriller" "1982"
 "Back in Black" "1980"
 "The Dark Side of the Moon" "1973"
 "The Bodyguard" "1992"
 "Bat Out of Hell" "1977"
 "Their Greatest..." "1976"
 "Saturday Night Fever" "1977"
 "Rumors" "1977"

"Starboy" in DICT
False

key called "Graduation."
We can delete an entry as follows. This gets rid of the key "Thriller" and its value. We can verify if an element is in the dictionary using the command as follows. The command checks the keys. If they are in the dictionary, they return a true. If we try the same command with a key that is not in the dictionary, we get a false. In order to see all the keys in a dictionary, we can use the method keys to get the keys. The output is a list like object with all the keys. In the same way, we can obtain the values using the method values. Check out the labs for more examples and info on dictionaries.

Video 2:02 / 2:24 [Download video file](#)

Transcripts
[Download SubRip \(.srt\) file](#)
[Download Text \(.txt\) file](#)

Coding Challenges

Problem Statement: 1. Bubble sort 2. **Binary tree** 3. **Array** 4. **JSP for date and time** 5. **JSP for visitors**

Status: Completed

Uploaded the report both in Github & Slack	Yes
--	-----

Encl : snapshots of your response to challenge.

```
1

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

```
true
false

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

- JSP Application

Current Date and Time is :

Thu May 28 11:05:39 UTC 2020

<https://github.com/SPSSURYA/Online-Coding-And-Certification-Course>

DAILY ONLINE ACTIVITIES SUMMARY

Date:	28-05-2020	Name:	sushmitha
Sem & Sec	6 TH & B	USN:	4al17cs102
Online Test Summary			
Subject	OS		
Max. Marks	30	Score	26
Certification Course Summary			
Course	Python for machine learning		
Certificate Provider	IBM	Duration	12 hrs
Coding Challenges			
Problem Statement: 1 java program			
Status: done			
Uploaded the report in Github	yes		
If yes Repository name	https://github.com/sushmithaganiga/ Report		
Uploaded the report in slack	yes		

Online Test Details: (Attach the snapshot and briefly write the report for the same)

Certification Course Details: (Attach the snapshot and briefly write the report for the same)

Coding Challenges Details: (Attach the snapshot and briefly write the report for the same)

The screenshot shows a Windows desktop environment with two open browser windows.

Top Browser Window: A TechGig challenge result page. It displays a message: "You have successfully participated in OS-17CS64-TEST 2." Below this, there's a "Rate this Test" section with a 5-star rating and a "Click to Rate" link. The main results section has two cards:

- Test 2 submitted** (PROBLEMS): Your Score **12 / 12**
- Test 1 submitted** (MCQ): Your Score **14 / 18**

Bottom Browser Window: A YouTube video player for a Cognitive Class course. The video title is "ML0101EN v3 - Intro to Clustering 8:01". The video content shows a screen recording of a chatbot workshop. The right side of the player has a sidebar with text about clustering algorithms and a "Share" button. The video progress bar shows it's at 43:43. The YouTube interface includes a search bar, a toolbar with icons for video controls, and a progress bar at the bottom.

Largest Tech Community | Hacks | K-Means Clustering (9:43) | K-Means Clustering

courses.cognitiveclass.ai/courses/course-v1:CognitiveClass+ML0101ENv3+2018/courseware/89227024130b43f684d95376901b65c8/e2f01a6ee88445e8ba56a7b47418dd29...

Watch later Share

ML0101EN v3 - K-Means Clustering 9:43

is no guarantee that it will converge to the global optimum, and the result may depend on the initial clusters. It means this algorithm is guaranteed to converge.

to a result, but the result may be a local optimum (i.e. not necessarily the best possible outcome). To solve this problem, it is common to run the whole process, multiple times, with different starting conditions.

This means, with randomized starting centroids, it may give a better outcome.

And as the algorithm is usually very fast, it wouldn't be any problem to run it multiple times.

Thanks for watching this video!

Activate Windows
Go to Settings to activate Windows.

Speed 1.0x 10:11 AM 5/28/2020

9:43 / 9:43 Type here to search O E W X P S A C G 99

Largest Tech Community | Hacks | More on K-Means (3:47) | ML0101EN v3 - More on K-Means 3:47

courses.cognitiveclass.ai/courses/course-v1:CognitiveClass+ML0101ENv3+2018/courseware/89227024130b43f684d95376901b65c8/9a55903a93be46c28140ccc553094...

Watch later Share

ML0101EN v3 - More on K-Means 3:47

plotted and the "elbow point" is determined, where the rate of decrease sharply shifts. It is the right K for clustering.

This method is called the "elbow" method.

So, let's recap k-Means clustering: k-Means is a partitioned-based clustering, which is:

- a) Relatively efficient on medium and large sized datasets;
- b) Produces sphere-like clusters, because the clusters are shaped around the centroids;
- and c) its drawback is that we should pre-specify the number of clusters, and this is not an easy task.

Thanks for watching!

Activate Windows
Go to Settings to activate Windows.

Speed 1.0x 10:16 AM 5/28/2020

3:47 / 3:47 Type here to search O E W X P S A C G 99

Largest Tech Community | Hacks

Lab: K-Means | Lab: K-Means | M

courses.cognitiveclass.ai/courses/course-v1:CognitiveClass+ML0101ENv3+2018/courseware/89227024130b43f684d95376901b65c8/a39b1722ade84dfbbdf245177931cd6c/?... Q ☆ 🌐

Name

- ML0101EN-Clas-Decision-Trees...
- ML0101EN-Clas-K-Nearest-nei...
- ML0101EN-Clas-Logistic-Regr...
- ML0101EN-Clas-SVM-cancer-p...
- ML0101EN-Clus-K-Means-Cust...
- ML0101EN-Reg-NoneLinearRe...
- ML0101EN-Reg-Simple-Linear...

```
# Plots the centroids with specified color, but with a darker outline
ax.plot(cluster_center[0], cluster_center[1], 'o', markerfacecolor=col, markeredgecolor='k')

# Title of the plot
ax.set_title('KMeans')

# Remove x-axis ticks
ax.set_xticks(())

# Remove y-axis ticks
ax.set_yticks(())

# Show the plot
plt.show()
```

Practice

Try to cluster the above dataset into 3 clusters.
Notice: do not generate data again, use the same dataset as above.

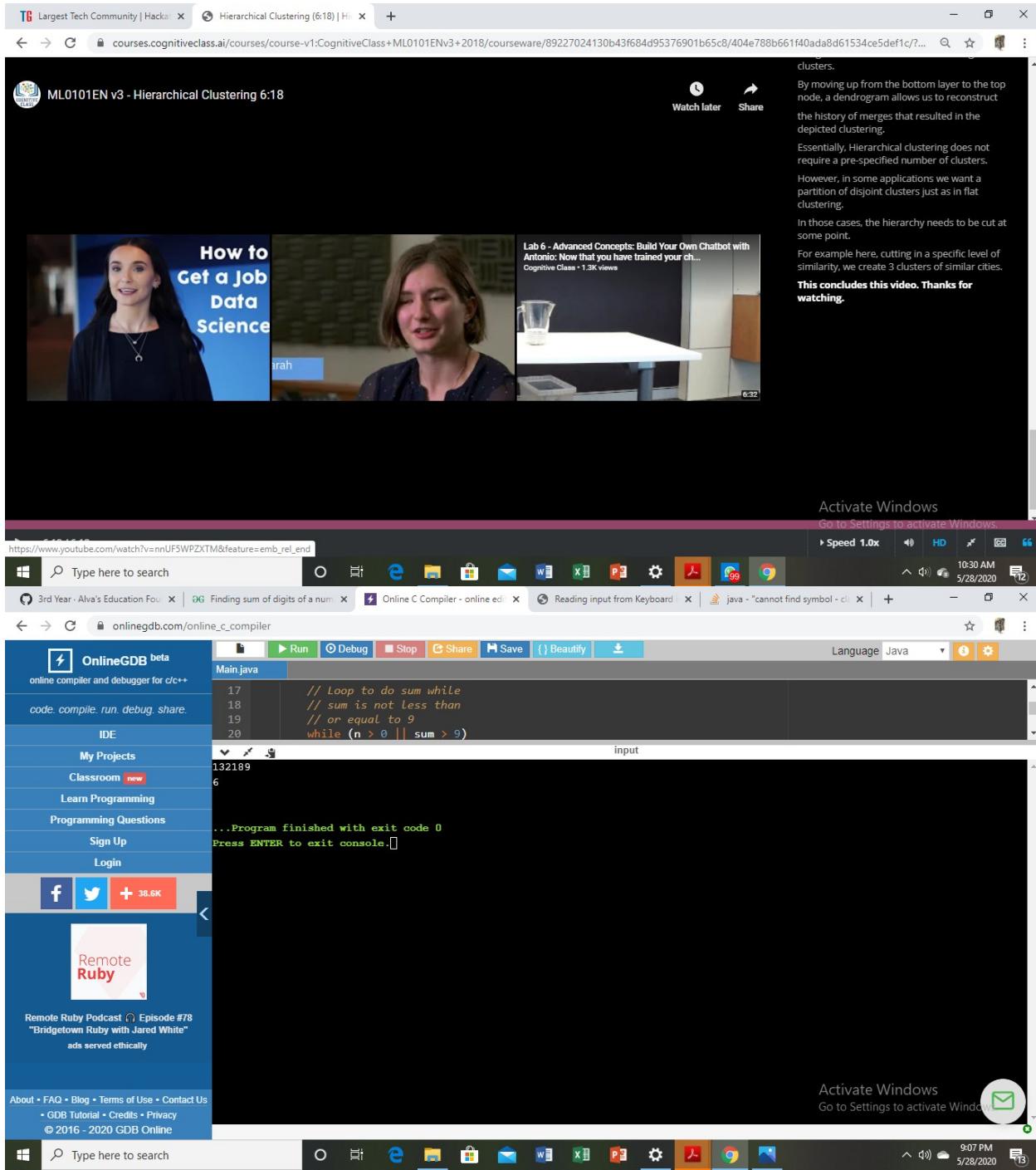
Did you know? IBM Watson Studio lets you build and deploy an AI solution, using the best of open source and IBM software and giving your team a single environment to work in. [Learn more here.](#)

```
[1]: # write your code here

k_means3 = KMeans(init = "k-means++", n_clusters = 3, n_init = 12)
k_means3.fit(X)
fig = plt.figure(figsize=(6, 4))
colors = plt.cm.Spectral(np.linspace(0, 1, len(set(k_means3.labels_))))
ax = fig.add_subplot(1, 1, 1)
for k, col in zip(range(len(k_means3.cluster_centers_)), colors):
    my_members = (k_means3.labels_ == k)
    cluster_center = k_means3.cluster_centers_[k]
    ax.plot(X[my_members, 0], X[my_members, 1], 'w', markerfacecolor=col, marker='*')
```

Activate Windows
Go to Settings to activate Windows.

10:18 AM 5/28/2020



DAILY REPORT

28/5/20

Student Name :SUSHMITHA B POOJARY

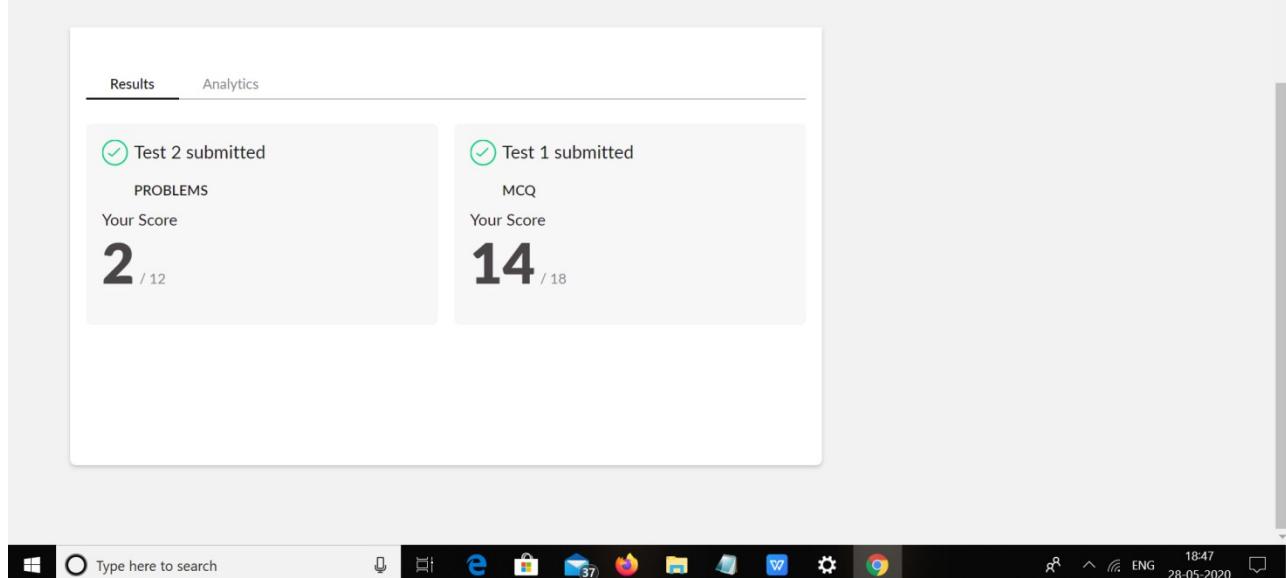
Class and Sec : VI B

USN :4AL17CS103

Date:28-05-2020

Online Test Details			
Subject	Operating system		
Semester	VI B	Duration	35 Minutes
% of marks 30		16	

snapshot of the test result



The screenshot shows a user interface for a learning platform. At the top, there are two tabs: "Results" (which is selected) and "Analytics". Below these, there are two sections. The left section is for "Test 2 submitted" under the category "PROBLEMS", showing a "Your Score" of 2 out of 12. The right section is for "Test 1 submitted" under the category "MCQ", showing a "Your Score" of 14 out of 18. The background of the page has a light gray gradient.



Certification Course Details			
Course	Ethical Hacking		
Certificate Provider	Great learning	Duration	6hours

snapshots of the daily class acitivities

Content

Career and Growth Ladder in Ethical Hacking

Learning Videos

Career and Growth Ladder in Ethical Hacking

 Domains and Process
 Implementation under Ethical Hacking

Ethical Hacking in Network Architecture-Demonstration

Ethical Hacking in Web Applications-Demonstration

Ethical Hacking on Mobile Platforms-Demonstration

What is Ethical Hacking

**Learning Week****Day 6**

Ethical Hacking

 Domains and Process
 Implementation under Ethical Hacking

Ethical Hacking in Network Architecture-Demonstration

Ethical Hacking in Web Applications-Demonstration

Ethical Hacking on Mobile Platforms-Demonstration

What is Ethical Hacking

Quiz

Claim Your Course Certificate

- Ethical Hacking Domains
- Web Application Domain
- Mobile
- Network Architecture Domain
- Demonstration
- Ethical Hacking in Web Application Security

Previous

Next

Coding Challenges	
1. Problem Statement: Python program to find digital root of a number JAVA PROGRAM-BALANCED BRAKET	
Status: Executed	
Uploaded the report both in Github & Slack	yes

snapshots of response to challenge.

Coding Challenges Details:

6. Python program to find digital root of a number

Description:

A digital root is the recursive sum of all the digits in a number. Given n, take the sum of the digits of n. If that value has more than one digit, continue reducing in this way until a single-digit number is produced. This is only applicable to the natural numbers.

$$\text{digit_root}(0) = 0$$

`digital_root(16)`

$$=> 1 + 6$$

$$=> 7$$

`digital_root(132189)`

$$=> 1 + 3 + 2 + 1 + 8 + 9$$

$$=> 24 \dots$$

$$=> 2 + 4$$

=> 6

```
def DigitalRoot(num  
    ber): addper=0  
        while number >=10:  
            number = sum(int(digit)for digit in  
                str(number))  
            addper +=1  
  
        #I highly recommend using return instead of print, but for  
        testing purposes I used print  
  
        print(n  
              umber)  
DigitalRoot(  
132189)
```

Output

```
main.py
1 def DigitalRoot(number):
2     addper = 0
3     while number >=10:
4         number = sum(int(digit)for digit in str(number))
5         addper +=1
6     #I highly recommend using return instead of print, but for testing purposes I used print
7     print(number)
8 DigitalRoot(132189)
9
10
```

input
6

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

7. JAVA PROGRM-BALANCED BRAKET

Write a function that accepts a string consisting entiring of brackets ({})) and returns whether it is balanced. Every "opening" bracket must be followed by a closing bracket of the same type. There can also be nested brackets, which adhere to the same rule.

```
f('()[]{}(([])){[()]]}') // true
f('()[]{}') // false
```

```
import java.util.Stack;
public class Main {

    public static void main(String[] args)
    {
        System.out.println(is_parentheses_balanced("()[]{}(([])){[()]]}"));

    }

    public static boolean matchingPeer(char open , char close)

    {
        if ( open == '(' && close == ')')
        {
```

```
        return true;
    }

if ( open == '[' && close == ']')

{

    return true;

}

else{

    return false;

}

}

public static boolean is_parentheses_balanced(String equation){

char[] c = equation.toCharArray();

Stack <Character> myStack= new Stack <Character> ();

for (int i = 0; i < c.length; i++){

    if(c[i]=='(' || c[i] == '[' ){

        myStack.push(c[i]);

    }

    else if (c[i]== ')' || c[i]==']'){

        if(matchingPeer(myStack.peek(),c[i])==true){

            myStack.pop();

        }

        } else {

            return false;

        }

    }

}
```

```
}

if(myStack.isEmpty()){

    return true;

}

else

{



}

return false;

}
```

Output:

The screenshot shows a Java code editor interface. The top bar includes buttons for Run, Debug, Stop, Share, Save, and Beautify, along with a Language dropdown set to Java. The main window displays the code for Main.java. The code imports java.util.Stack and defines a public class Main with a main method that prints the result of is_parentheses_balanced("(){}(([])){[()][]}"). It also contains a matchingPeer method. Below the code is a terminal window showing the output of the program. The terminal output shows the program's name, the input string, the output 'true', and the completion message "...Program finished with exit code 0". At the bottom, a taskbar shows various system icons and the date/time.

```
Main.java
1 import java.util.Stack;
2 public class Main {
3     public static void main(String[] args) {
4         System.out.println(is_parentheses_balanced("(){}(([])){[()][]}"));
5     }
6     public static boolean matchingPeer(char open , char close){
7         if ( open == '(' && close == ')'){
8             return true;
9         }
10        if ( open == '[' && close == ']'){

true

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

DAILY ONLINE ACTIVITIES SUMMARY

Date:	28/05/2020		
Sem & Sec	6th /B	USN:	4AL17CS104
Online Test Summary			
Subject	OS IA Test - 2		
Max. Marks	30	Score	26
Certification Course Summary			
Course	Full Stack Web Developer		
Certificate Provider	Udemy	Duration	4 weeks
Coding Challenges			
Problem Statement:			
8. Python Program to print the greatest integer in the list without using sort().			
9. Python Program to find digital root of a number.			
Status: Completed			
Uploaded the report in GitHub	Yes		
If yes Repository name	<u>https://github.com/SyedHudaif/Online-Coding-updates</u> <u>https://github.com/SyedHudaif/Certification-course-updates</u>		
Uploaded the report in slack	Yes		

Online Test Details

Results

Analytics



Test 2 submitted

PROBLEMS

Your Score

12 / 12



Test 1 submitted

MCQ

Your Score

14 / 18

Online Certification Details



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Coding Challenge Details

3. Python Program to print the greatest integer in the list without using sort().

The screenshot shows a terminal window titled "main.py". The code is as follows:

```
1 l = []
2 n = int(input("Enter the size of the list\n"))
3 print("Enter the elements")
4 for i in range(n):
5     x = int(input())
6     l.append(x)
7 print("The greatest number in the list is = ", max(l))
8
```

The terminal output is:

```
Enter the size of the list
5
Enter the elements
67
89
5
4
0
The greatest number in the list is =  89

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

4. Python Program to find digital root of a number.

The screenshot shows a Jupyter Notebook cell with the code "main.py" and a "Run" button. The code defines a function "digital_root" and prints its result. The "Shell" tab shows the input and output of the run.

```
1 def digital_root(n):
2     m = len(str(n))
3     s=0
4     for i in range(m):
5         s = s+ n%10
6         n = n//10
7     print(s)
8     if(len(str(s))>1):
9         return(digital_root(s))
10 n = int(input("Enter the digit\n"))
11 print(digital_root(n))
```

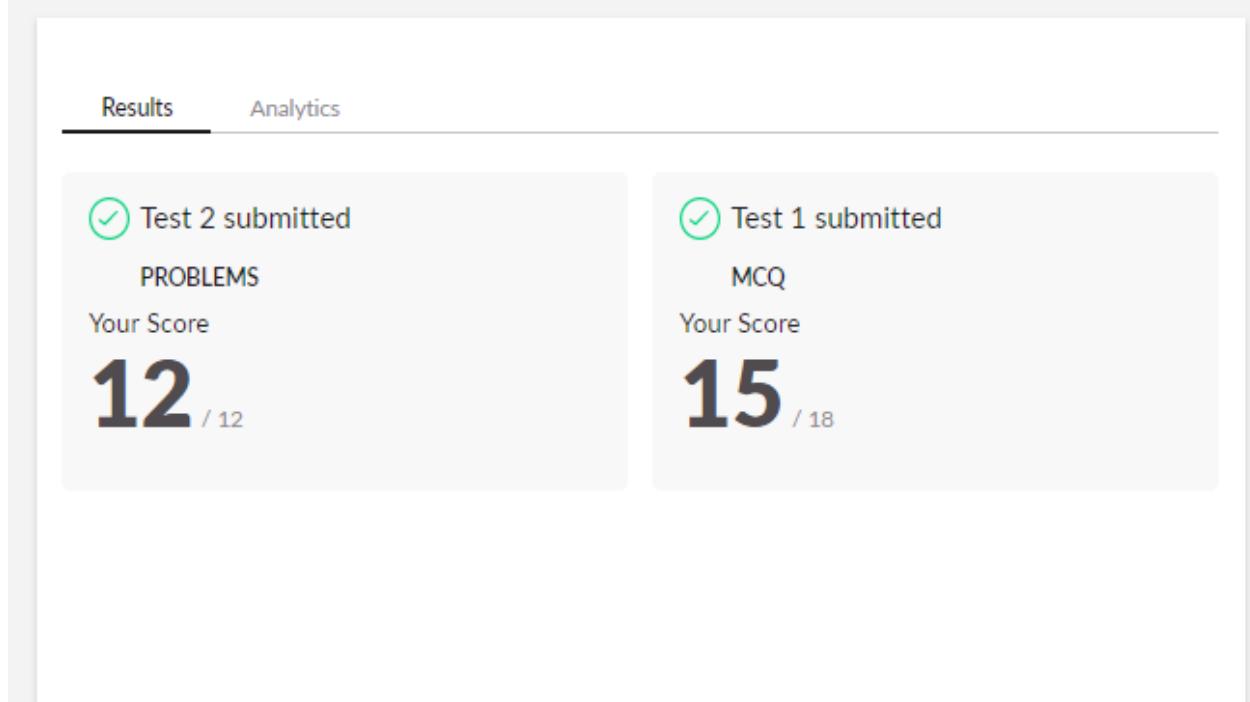
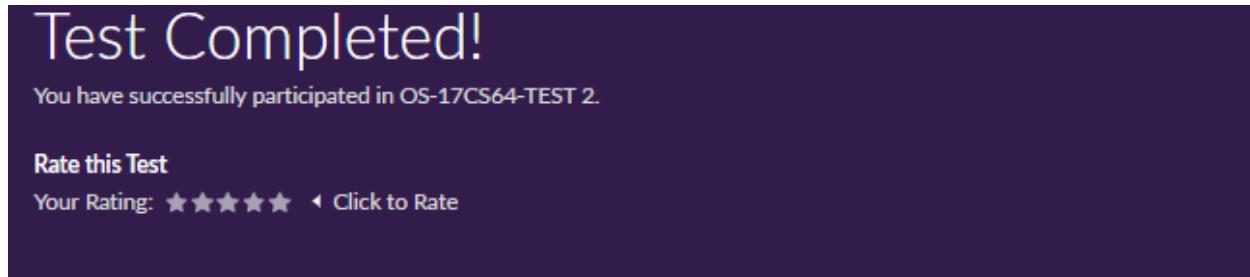
Shell output:

```
Enter the digit
456
15
6
None
>>>
```

DAILY ONLINE ACTIVITIES SUMMARY

Date:	28-05-2020	Name:	Sneha K Bakale
Sem & Sec	6 th B	USN:	4al17cs095
Online Test Summary			
Subject	OS		
Max. Marks	30	Score	27
Certification Course Summary			
Course	Introduction of Cyber Security		
Certificate Provider	Great learning Academy	Duration	7.0 hours
Coding Challenges			
Problem Statement: Programs given			
Status: Completed			
Uploaded the report in Github	Yes		
If yes Repository name	https://github.com/Sneha35/OnlineCourse-And-Coding.git		
Uploaded the report in slack	Yes		

Online Test Details: (Attach the snapshot and briefly write the report for the same)



This image displays a test results summary. It has two main sections: "Test 2 submitted" and "Test 1 submitted".

Test 2 submitted:
PROBLEMS
Your Score
12 / 12

Test 1 submitted:
MCQ
Your Score
15 / 18

Certification Course Details: (Attach the snapshot and briefly write the report for the same)

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Coding Challenges Details: (Attach the snapshot and briefly write the report for the same) **Output:**

```
C:\Users\vijay\PycharmProjects\28\05\venv\Scripts\python.exe
Enter the number:132189
The digital root of 132189 is: 6

Process finished with exit code 0
```

Output:

```
Enter your String to check:  
('()[]{}(([[])){{()}}[]}')  
Balanced
```

```
Enter your String to check:  
([{}])[]{}))  
Unbalanced
```

Output:

```
Enter the no. of elements:  
5  
Enter the elements into array  
1 2 3 4 5  
Enter the k value:  
7  
1
```

Output:

The screenshot shows a JSP application interface. On the left, the code for index.jsp is displayed:

```
1 <html>  
2   <head><title>JSPApp</title></head>  
3   <body>  
4     <form>  
5       <fieldset style="width:50%; background-color: #ccffeb;">  
6         <legend>JSP Application</legend>  
7         <h3>Current Date and Time is :</h3>  
8         <% java.util.Date d = new java.util.Date();  
9             out.println(d.toString()); %>  
10        </fieldset>  
11      </form>  
12    </body>  
13 </html>
```

On the right, the result panel displays the output:

```
—JSP Application—  
Current Date and Time is :  
Thu May 28 11:05:39 UTC 2020
```

DAILY ONLINE ACTIVITIES SUMMARY

Date:	28/05/2020		Name:	Spoorthy Balaji		
Sem & Sec	6th & B		USN:	4al17cs098		
Online Test Summary						
Subject	OS					
Max. Marks	30	Score	24			
Certification Course Summary						
Course	Introduction to Ethical Hacking					
Certificate Provider	Great Learning Academy	Duration	6hours			
Coding Challenges						
Problem Statement: 5Programs						
Status: Solved						
Uploaded the report in Github	yes					
If yes Repository name	<u>https://github.com/spoorthybalaji/ Daily_Status</u>					
Uploaded the report in slack	yes					

IA TEST

The screenshot shows a web browser window with the following details:

- Title Bar:** Largest Tech Community | Hackerrank | Inbox (251) - spoorthybalaji46@... | techgig.com/challenge/result/problems/aHE4WWVURGVFTzEzVWd5TWNVK1laQT09
- Toolbar:** Apps, Easy Search new tab, New Tab, Privacy error, Gmail, YouTube, Maps, Image result for fre..., How to Download F..., Custom ListView wi...
- User Information:** spoorthynov11@gmail.com Logout
- Main Content:**
 - Section Header:** Test Completed!
 - Text:** You have successfully participated in OS-17CS64-TEST 2.
 - Rating:** Rate this Test
Your Rating: ★★★★★ • Click to Rate
 - Results Section:** Results (selected) / Analytics
 - Test 2 submitted:** PROBLEMS Your Score: **10** / 12
 - Test 1 submitted:** MCQ Your Score: **14** / 18
- Taskbar:** Shows various pinned icons like File Explorer, Edge, Mail, etc. The system tray indicates the date as 28-May-20 and the time as 9:44 AM.

CERTIFICATION COURSE



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50m

- ▶ Ethical Hacking on Mobile Platforms-Demonstration
34m

- ▶ What is Ethical Hacking
50m



ONLINE CODING

Program output:

The screenshot shows a Google Colab notebook titled "Untitled10.ipynb". The code defines a function `droot` that calculates the digital root of a given number by summing its digits. A user input of 16 is provided, resulting in an output of 7.

```
num = input("Enter your number: ")
print(num, "\n")

def droot(num):
    if len(num) == 1:
        return num
    else:
        sum = 0
        for i in num:
            sum += int(i)
        num = str(sum)
        return droot(num)

print("The digital root of ", num, " is: ", droot(num))

C> Enter your number: 16
16

The digital root of  16  is:  7
```



