

Peer-Peer Mentoring Program

Student Learning Center, Hansraj College

Month and Year: October & November 2021

Department: Physics and Electronics

Name of the Departmental Program Coordinator: Dr. Ravikant Prasad

S. No	Name of the Mentor	Sem	Number of sessions Mentored	Date and Time (of each session)	Topics covered (in each session)	No. of Mentees attended (per each session)
Mr. Jishant Talwar		V	1 Session (2 hours)	30-10-2021; 3:00 pm - 5:00 pm	Introduction to Python	18
			1 Session (2 hours)	7-11-2021; 11:00 am - 1:00 pm	Data Structures in Python	7
			1 Session (2 hours)	14-11-2021; 11:00 am - 1:00 pm	Introduction to Python Statements	13
			1 Session (2 hours)	28-11-2021 11:00 am – 1:00 pm	Methods, Functions and Object-Oriented Programming	4

Mentor: Mr. Jishant Talwar

Course: B.Sc (H) Physics

Current Sem: V

Email id: jishant.talwarjt@gmail.com



October 30, 2022: Introduction to Python: Topics covered.

- 1) What is Python? Why Python? Where Python?
- 2) Installation of Python (Anaconda Navigator)
- 3) Numbers
- 4) Variable Assignment
- 5) Strings
- 6) Print formatting in Strings

1	Meeting Summary						
2	Total Number of Participants	20					
3	Meeting Title	General					
4	Meeting Start Time	10/30/2021, 2:55:41 PM					
5	Meeting End Time	10/30/2021, 5:00:00 PM					
6	Meeting Id	b0146745-2a3e-4972-977c-149d500c8ab7					
7							
8	Full Name	Join Time	Leave Time	Duration	Email	Role	Participant ID (UPN)
9	jishant	10/30/2021, 2:55:41 PM	10/30/2021, 4:59:58 PM	2h 4m	jishant7663@hrc.edu.du.ac.in	Presenter	jishant7663@hrc.edu.du.ac.in
10	rahul14224	10/30/2021, 2:56:48 PM	10/30/2021, 3:36:20 PM	39m 32s	rahul14224@hrc.edu.du.ac.in	Attendee	rahul14224@hrc.edu.du.ac.in
11	sharda14183	10/30/2021, 2:58:50 PM	10/30/2021, 3:41:26 PM	42m 35s	sharda14183@hrc.edu.du.ac.in	Attendee	sharda14183@hrc.edu.du.ac.in
12	priyanshu14237	10/30/2021, 3:01:03 PM	10/30/2021, 3:31:21 PM	30m 18s	priyanshu14237@hrc.edu.du.ac.in	Attendee	priyanshu14237@hrc.edu.du.ac.in
13	prateek14207	10/30/2021, 3:01:08 PM	10/30/2021, 3:01:27 PM	18s	prateek14207@hrc.edu.du.ac.in	Attendee	prateek14207@hrc.edu.du.ac.in
14	prateek14207	10/30/2021, 3:04:55 PM	10/30/2021, 3:06:33 PM	1m 38s	prateek14207@hrc.edu.du.ac.in	Attendee	prateek14207@hrc.edu.du.ac.in
15	aditya14239	10/30/2021, 3:01:47 PM	10/30/2021, 4:56:08 PM	1h 54m	aditya14239@hrc.edu.du.ac.in	Attendee	aditya14239@hrc.edu.du.ac.in
16	harsh14238	10/30/2021, 3:01:55 PM	10/30/2021, 3:14:34 PM	12m 39s	harsh14238@hrc.edu.du.ac.in	Attendee	harsh14238@hrc.edu.du.ac.in
17	RavikantPrasad	10/30/2021, 3:02:25 PM	10/30/2021, 3:03:15 PM	50s	ravikantprasad@hrc.edu.du.ac.in	Organizer	ravikantprasad@hrc.edu.du.ac.in
18	kunal14228	10/30/2021, 3:03:58 PM	10/30/2021, 3:06:04 PM	2m 6s	kunal14228@hrc.edu.du.ac.in	Attendee	kunal14228@hrc.edu.du.ac.in
19	umesh14247	10/30/2021, 3:04:25 PM	10/30/2021, 3:58:52 PM	54m 27s	umesh14247@hrc.edu.du.ac.in	Attendee	umesh14247@hrc.edu.du.ac.in
20	ranjana14223	10/30/2021, 3:05:41 PM	10/30/2021, 3:44:21 PM	38m 39s	ranjana14223@hrc.edu.du.ac.in	Attendee	ranjana14223@hrc.edu.du.ac.in
21	kapil14240	10/30/2021, 3:06:00 PM	10/30/2021, 4:59:54 PM	1h 53m	kapil14240@hrc.edu.du.ac.in	Attendee	kapil14240@hrc.edu.du.ac.in
22	sharan14267	10/30/2021, 3:08:07 PM	10/30/2021, 3:08:42 PM	35s	sharan14267@hrc.edu.du.ac.in	Attendee	sharan14267@hrc.edu.du.ac.in
23	keshav14221	10/30/2021, 3:08:16 PM	10/30/2021, 5:00:00 PM	1h 51m	keshav14221@hrc.edu.du.ac.in	Attendee	keshav14221@hrc.edu.du.ac.in
24	yogesh7637	10/30/2021, 3:08:36 PM	10/30/2021, 4:36:09 PM	1h 27m	yogesh7637@hrc.edu.du.ac.in	Attendee	yogesh7637@hrc.edu.du.ac.in
25	ajay14177	10/30/2021, 3:15:02 PM	10/30/2021, 4:45:32 PM	1h 30m	ajay14177@hrc.edu.du.ac.in	Attendee	ajay14177@hrc.edu.du.ac.in
26	sameer14155	10/30/2021, 3:48:54 PM	10/30/2021, 3:49:38 PM	43s	sameer14155@hrc.edu.du.ac.in	Attendee	sameer14155@hrc.edu.du.ac.in
27	piyush14173	10/30/2021, 4:23:03 PM	10/30/2021, 4:24:03 PM	1m	piyush14173@hrc.edu.du.ac.in	Attendee	piyush14173@hrc.edu.du.ac.in
28	himanshu14165	10/30/2021, 4:33:01 PM	10/30/2021, 4:34:24 PM	1m 23s	himanshu14165@hrc.edu.du.ac.in	Attendee	himanshu14165@hrc.edu.du.ac.in
29	ashutosh14200	10/30/2021, 4:43:11 PM	10/30/2021, 4:43:44 PM	33s	ashutosh14200@hrc.edu.du.ac.in	Attendee	ashutosh14200@hrc.edu.du.ac.in

November 7, 2021: Data Structures in Python: Topics covered

- 1) Lists
- 2) Dictionaries
- 3) Tuples
- 4) Sets and Booleans
- 5) Assignment 1 - Objects and Data Structures

1	Meeting Summary						
2	Total Number of Participants	9					
3	Meeting Title	General					
4	Meeting Start Time	11/7/2021, 10:50:21 AM					
5	Meeting End Time	11/7/2021, 12:49:55 PM					
6	Meeting Id	e6dd68ce-d897-448e-8cac-86ac752fa1b2					
7							
8	Full Name	Join Time	Leave Time	Duration	Email	Role	Participant ID (UPN)
9	jishant	11/7/2021, 10:50:21 AM	11/7/2021, 12:49:55 PM	1h 59m	jishant7663@hrc.edu.du.ac.in	Presenter	jishant7663@hrc.edu.du.ac.in
10	sharda14183	11/7/2021, 10:52:12 AM	11/7/2021, 11:58:22 AM	1h 6m	sharda14183@hrc.edu.du.ac.in	Attendee	sharda14183@hrc.edu.du.ac.in
11	rahul14224	11/7/2021, 10:55:23 AM	11/7/2021, 12:49:27 PM	1h 54m	rahul14224@hrc.edu.du.ac.in	Attendee	rahul14224@hrc.edu.du.ac.in
12	aditya14239	11/7/2021, 11:00:55 AM	11/7/2021, 12:49:04 PM	1h 48m	aditya14239@hrc.edu.du.ac.in	Attendee	aditya14239@hrc.edu.du.ac.in
13	kapil14240	11/7/2021, 11:01:53 AM	11/7/2021, 11:56:22 AM	54m 29s	kapil14240@hrc.edu.du.ac.in	Attendee	kapil14240@hrc.edu.du.ac.in
14	RavikantPrasad	11/7/2021, 11:03:39 AM	11/7/2021, 11:04:21 AM	41s	ravikantprasad@hrc.edu.du.ac.in	Organizer	ravikantprasad@hrc.edu.du.ac.in
15	keshav14221	11/7/2021, 11:05:37 AM	11/7/2021, 11:08:38 AM	3m	keshav14221@hrc.edu.du.ac.in	Attendee	keshav14221@hrc.edu.du.ac.in
16	keshav14221	11/7/2021, 11:09:45 AM	11/7/2021, 11:23:32 AM	13m 46s	keshav14221@hrc.edu.du.ac.in	Attendee	keshav14221@hrc.edu.du.ac.in
17	ananya7603	11/7/2021, 11:19:55 AM	11/7/2021, 11:21:19 AM	1m 23s	ananya7603@hrc.edu.du.ac.in	Attendee	ananya7603@hrc.edu.du.ac.in
18	priyanshu14237	11/7/2021, 12:03:44 PM	11/7/2021, 12:05:52 PM	2m 8s	priyanshu14237@hrc.edu.du.ac.in	Attendee	priyanshu14237@hrc.edu.du.ac.in

November 14, 2021: Introduction to Python Statements:

- 1) Comparison operators
- 2) Introduction
- 3) If, elif and else statements
- 4) For loops
- 5) While loops
- 6) List comprehensions
- 7) Assignment 2 – Statements Assessment

1	Meeting Summary						
2	Total Number of Participants	13					
3	Meeting Title	General					
4	Meeting Start Time	11/14/2021, 10:54:46 AM					
5	Meeting End Time	11/14/2021, 1:08:30 PM					
6	Meeting Id	1f370954-ec74-43b4-909b-5e51ce153479					
7							
8	Full Name	Join Time	Leave Time	Duration	Email	Role	Participant ID (UPN)
9	jishant	11/14/2021, 10:54:46 AM	11/14/2021, 1:08:30 PM	2h 13m	jishant7663@hrc.edu.du.ac.in	Presenter	jishant7663@hrc.edu.du.ac.in
10	ajay14177	11/14/2021, 11:02:59 AM	11/14/2021, 1:08:26 PM	2h 5m	ajay14177@hrc.edu.du.ac.in	Attendee	ajay14177@hrc.edu.du.ac.in
11	kunwar14254	11/14/2021, 11:04:02 AM	11/14/2021, 11:10:26 AM	6m 24s	kunwar14254@hrc.edu.du.ac.in	Attendee	kunwar14254@hrc.edu.du.ac.in
12	kawaljit14216	11/14/2021, 11:06:53 AM	11/14/2021, 11:34:22 AM	27m 28s	kawaljit14216@hrc.edu.du.ac.in	Attendee	kawaljit14216@hrc.edu.du.ac.in
13	ridhika	11/14/2021, 11:07:03 AM	11/14/2021, 11:16:10 AM	9m 7s	ridhika7667@hrc.edu.du.ac.in	Attendee	ridhika7667@hrc.edu.du.ac.in
14	tarun	11/14/2021, 11:07:35 AM	11/14/2021, 11:08:55 AM	1m 19s	tarun7676@hrc.edu.du.ac.in	Attendee	tarun7676@hrc.edu.du.ac.in
15	brenjit14201	11/14/2021, 11:07:41 AM	11/14/2021, 11:23:55 AM	16m 13s	brenjit14201@hrc.edu.du.ac.in	Attendee	brenjit14201@hrc.edu.du.ac.in
16	prateek14207	11/14/2021, 11:11:47 AM	11/14/2021, 11:12:18 AM	31s	prateek14207@hrc.edu.du.ac.in	Attendee	prateek14207@hrc.edu.du.ac.in
17	prashant14152	11/14/2021, 11:12:06 AM	11/14/2021, 11:12:52 AM	45s	prashant14152@hrc.edu.du.ac.in	Attendee	prashant14152@hrc.edu.du.ac.in
18	pratham	11/14/2021, 11:14:37 AM	11/14/2021, 11:27:22 AM	12m 44s	pratham7705@hrc.edu.du.ac.in	Attendee	pratham7705@hrc.edu.du.ac.in
19	motea14266	11/14/2021, 11:17:53 AM	11/14/2021, 11:44:51 AM	26m 58s	motea14266@hrc.edu.du.ac.in	Attendee	motea14266@hrc.edu.du.ac.in
20	piyush14173	11/14/2021, 11:23:51 AM	11/14/2021, 11:24:14 AM	23s	piyush14173@hrc.edu.du.ac.in	Attendee	piyush14173@hrc.edu.du.ac.in
21	sachin14248	11/14/2021, 11:58:42 AM	11/14/2021, 11:58:48 AM	6s	sachin14248@hrc.edu.du.ac.in	Attendee	sachin14248@hrc.edu.du.ac.in

November 28, 2021: Methods, Functions and Object-Oriented Programming: Topics covered

- 1) Methods
- 2) Functions
- 3) Object-Oriented Programming

1	Meeting Summary						
2	Total Number of Participants	5					
3	Meeting Title	General					
4	Meeting Start Time	11/28/2021, 11:50:40 AM					
5	Meeting End Time	11/28/2021, 2:02:26 PM					
6	Meeting Id	e6c6aef5-c6f1-4124-ba6e-f31793cb0c74					
7							
8	Full Name	Join Time	Leave Time	Duration	Email	Role	Participant ID (UPN)
9	jishant	11/28/2021, 11:50:40 AM	11/28/2021, 1:57:39 PM	2h 6m	jishant7663@hrc.edu.du.ac.in	Presenter	jishant7663@hrc.edu.du.ac.in
10	jishant	11/28/2021, 1:59:26 PM	11/28/2021, 1:59:35 PM	9s	jishant7663@hrc.edu.du.ac.in	Presenter	jishant7663@hrc.edu.du.ac.in
11	rahul14224	11/28/2021, 11:57:23 AM	11/28/2021, 1:57:25 PM	2h	rahul14224@hrc.edu.du.ac.in	Attendee	rahul14224@hrc.edu.du.ac.in
12	ajay14177	11/28/2021, 12:02:22 PM	11/28/2021, 1:57:22 PM	1h 54m	ajay14177@hrc.edu.du.ac.in	Attendee	ajay14177@hrc.edu.du.ac.in
13	aman14270	11/28/2021, 12:11:04 PM	11/28/2021, 12:11:10 PM	5s	aman14270@hrc.edu.du.ac.in	Attendee	aman14270@hrc.edu.du.ac.in
14	keshav14221	11/28/2021, 12:41:45 PM	11/28/2021, 2:02:26 PM	1h 20m	keshav14221@hrc.edu.du.ac.in	Attendee	keshav14221@hrc.edu.du.ac.in

Assignments:

Inbox (14,367) - srikala... x | My Drive - Google Drive x | 07-Statements Assess... x | 09-Objects and Data... x | Inbox (7) - srikala@hri... x | Search results - slc@hri... x | +

colab.research.google.com/drive/1HT5DhwsvkOVdfvz5uoSbpTdqbkKdXuo1g

Welcome to HDFC... aboutblank University of Delhi... Airtel ZeroTouch

07-Statements Assessment Test.ipynb ☆

File Edit View Insert Runtime Tools Help Changes will not be saved

+ Code + Text Copy to Drive

Connect Editing

Statements Assessment Test

Let's test your knowledge!

Use `for`, `.split()`, and `if` to create a Statement that will print out words that start with 's':

```
[ ] st = 'Print only the words that start with s in this sentence'
```

```
[ ] #Code here
```

Use `range()` to print all the even numbers from 0 to 10.

```
[ ] #Code Here
```

Use a List Comprehension to create a list of all numbers between 1 and 50 that are divisible by 3.

Activate Windows
Go to Settings to activate Windows.

Some of the Study Material Provided:

<https://colab.research.google.com/drive/1nIiHOErjgBsG67Ipg3K7JsGp8KbSoL1>

<https://colab.research.google.com/drive/1ThgoX5TdgVSQYqpOCtHKv892NfreAljE>

<https://colab.research.google.com/drive/18-v69rral8I4ZsgsXKucu4o4RN-480Wn>

<https://colab.research.google.com/drive/18-v69rral8I4ZsgsXKucu4o4RN-480Wn>

<https://colab.research.google.com/drive/1xsUGSC41XzA5GU6veNA4cV5DGYp3wyIP>

https://colab.research.google.com/drive/1l7Y_hyZmp9mOeoVSulFnK0HcZQc21ugy

Photographs:

The screenshot shows a Zoom meeting window titled "Introduction to Python-20211030_151136-Meeting Recording.mp4". The main content is a Jupyter Notebook titled "03-Print Formatting with Strings". The notebook content includes:

- A code cell showing a string formatting example: `print('A penny saved is a penny earned.'.format(penny=1))` with the output "A penny saved is a penny earned."
- A section titled "Alignment, padding and precision with .format()".
- Text explaining that curly braces can be used to assign field lengths, left/right alignments, rounding parameters, etc.
- A code cell showing formatted output: `print('{0:8} | {1:9}'.format('Fruit', 'Quantity'))`, `print('{0:8} | {1:9}'.format('Apples', 3))`, and `print('{0:8} | {1:9}'.format('Oranges', 10))`.
- Text explaining that by default, .format() aligns text to the left, numbers to the right, and that optional alignment characters (<, >, ^) can be used.
- A code cell showing aligned output: `print('{0:8} | {1:8} | {2:8}'.format('Left', 'Center', 'Right'))` and `print('{0:8} | {1:8} | {2:8}'.format(11, 22, 33))`.
- Text explaining that the alignment operator can be preceded by a padding character.
- A code cell showing padded output: `print('{0:=8} | {1:=8} | {2:=8}'.format('Left', 'Center', 'Right'))` and `print('{0:=8} | {1:=8} | {2:=8}'.format(11, 22, 33))`.

The Zoom interface shows a sidebar with icons for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The bottom status bar shows the time as 1:43:05, a search bar, and system icons for network, volume, and temperature (36°C).

The screenshot shows a Zoom meeting window titled "Introduction to Python-20211030_151136-Meeting Recording.mp4". The main content is a Jupyter Notebook titled "01-Numbers". The notebook content includes:

- A section titled "Numbers and more in Python!".
- Text stating: "In this lecture, we will learn about numbers in Python and how to use them. We'll learn about the following topics:"
- A list of topics:
 - 1.) Types of Numbers in Python
 - 2.) Basic Arithmetic
 - 3.) Differences between classic division and floor division
 - 4.) Object Assignment in Python
- A section titled "Types of numbers".
- Text stating: "Python has various 'types' of numbers (numeric literals). We'll mainly focus on integers and floating point numbers."
- Text explaining that integers are whole numbers, positive or negative, with examples: 2 and -2.
- Text explaining that floating point numbers are notable because they have a decimal point, or use an exponential (e) to define the number, with examples: 2.0 and -2.1, and 4E2 (4 times 10 to the power of 2).

The Zoom interface shows a sidebar with icons for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The bottom status bar shows the time as 9:07, a search bar, and system icons for network, volume, and temperature (36°C).