**Assignment -1**

Python Programming

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| Assignment Date | 19 September 2022 |
| Student Name | Ms.Mahiladevi.S |
| Student Roll Number | 922519205062 |
| Maximum Marks | 2 Marks |

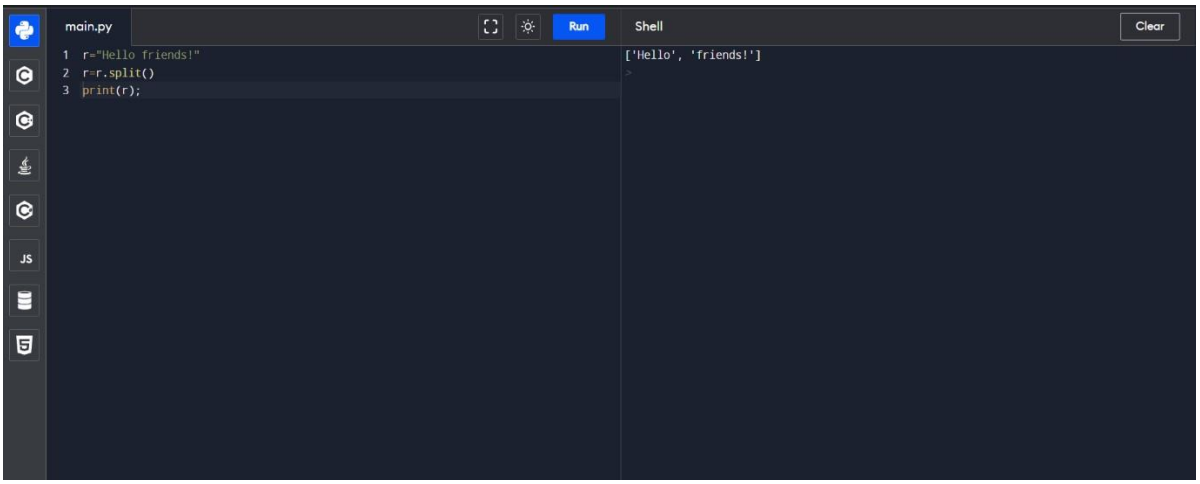
Question-1:

Split this string

Solution: r="Hello friends!" r=r.split() print(r);

#.....#

#.....#



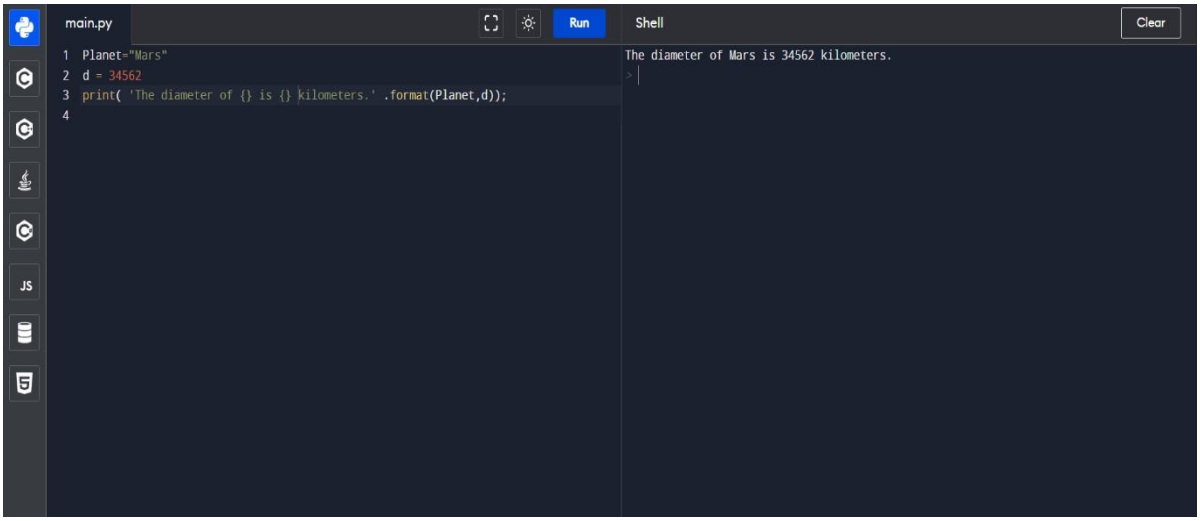

Question-2:

Use .format() to print the following string.

Output should be: The diameter of Earth is 12742 kilometers.

Solution:

```
Planet="Mars" d
= 34562
print( 'The diameter of {} is {}kilometers.'
.format(Planet,d));
```



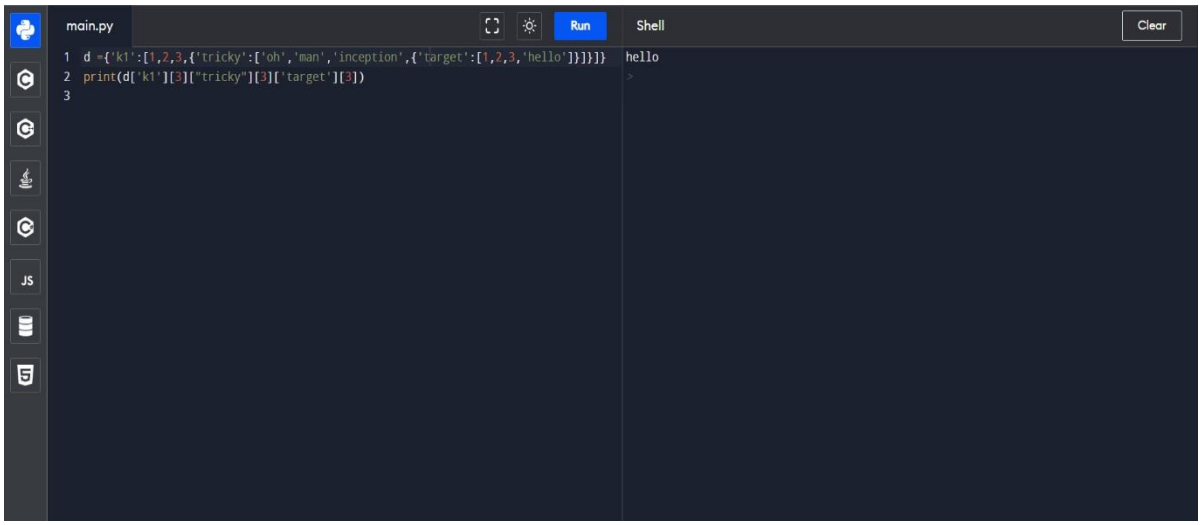

Question-3:

In this nest dictionary grab the word "hello"

```
d =
{'k1':[1,2,3,{'tricky':['oh','man','inception',{'
target':[1,2,3,'hello']}]}]}
```

Solution:

```
d =
{'k1':[1,2,3,{'tricky':['oh','man','inception',{'t
arget':[1,2,3,'hello']}]}]}
print(d['k1'][3]["tricky"][3]['target'][3])
```




Question-4:

Numpy import numpy as np

4.1 Create an array of 10 zeros?

Solution: np.zeros(10)

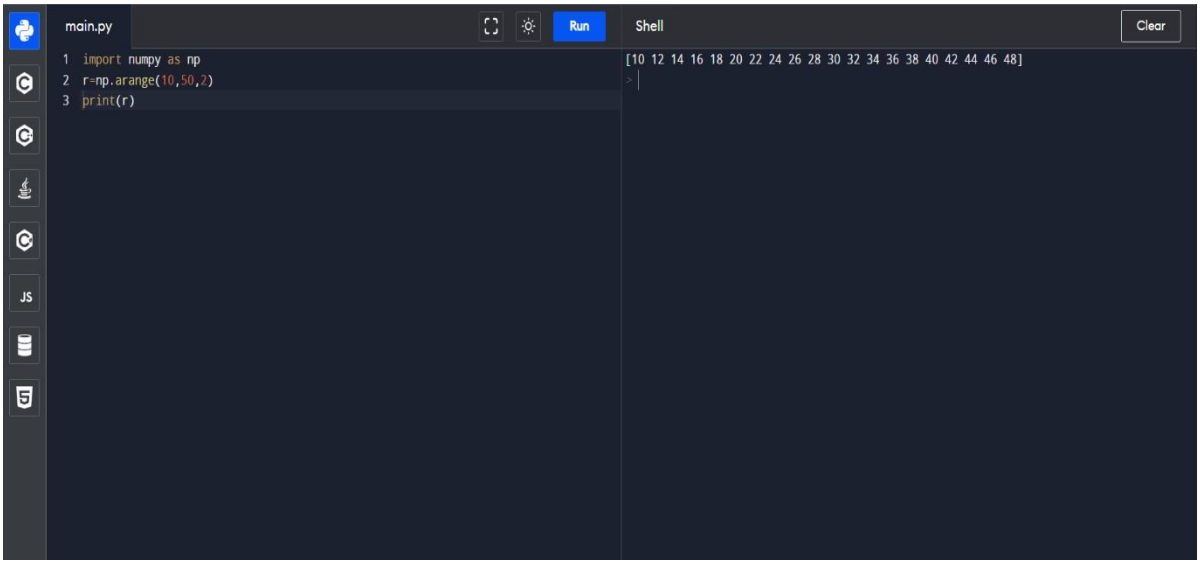
4.2 Create an array of 10 fives?

Solution: np.ones(10)*5


Question-5:

Create an array of all the even integers from 20 to 35 Solution:

```
import numpy as np
r=np.arange(10,50,2) print(r)
```

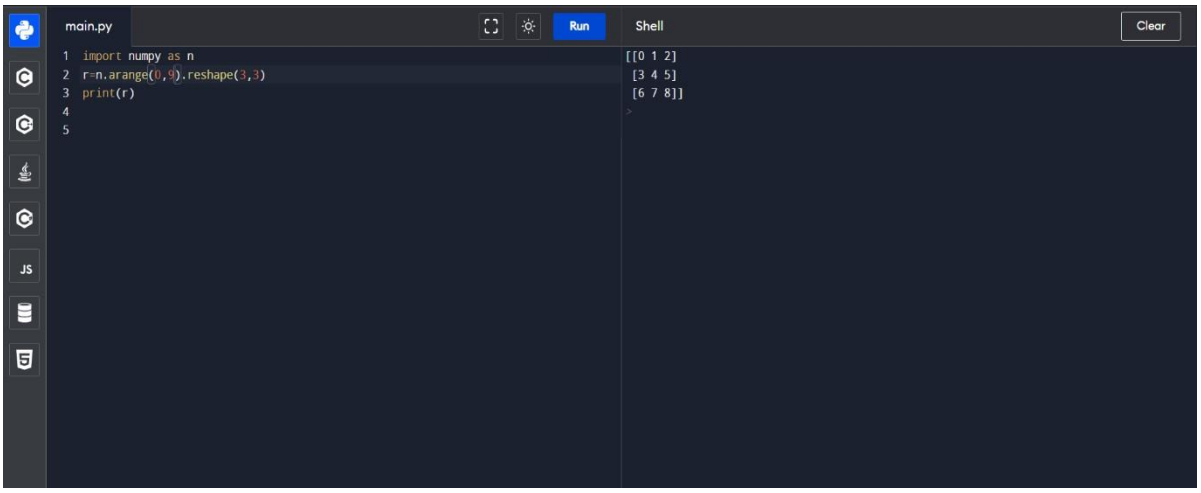



Question-6:

Create a 3x3 matrix with values ranging from 0 to 8

Solution: import numpy as n

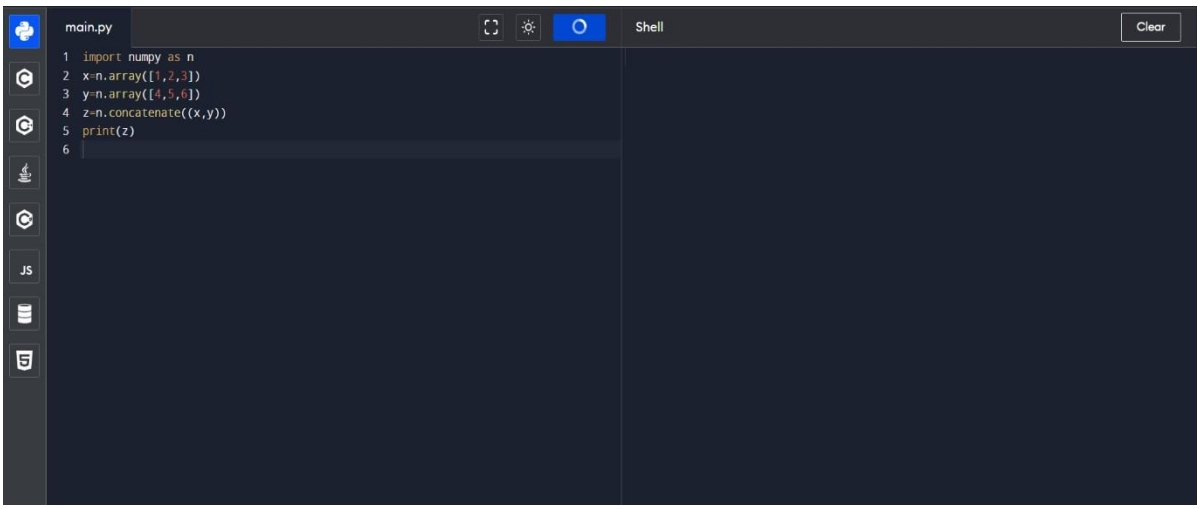
```
r=n.arange(0,9).reshape(3,3)
print(r)
```




Question-7: Concatenate x and y x = np.array([1, 2, 3]), y = np.array([4, 5, 6])

Solution:

```
import numpy as n
x=n.array([1,2,3])
y=n.array([4,5,6])
z=n.concatenate((x,y)) print(z)
```

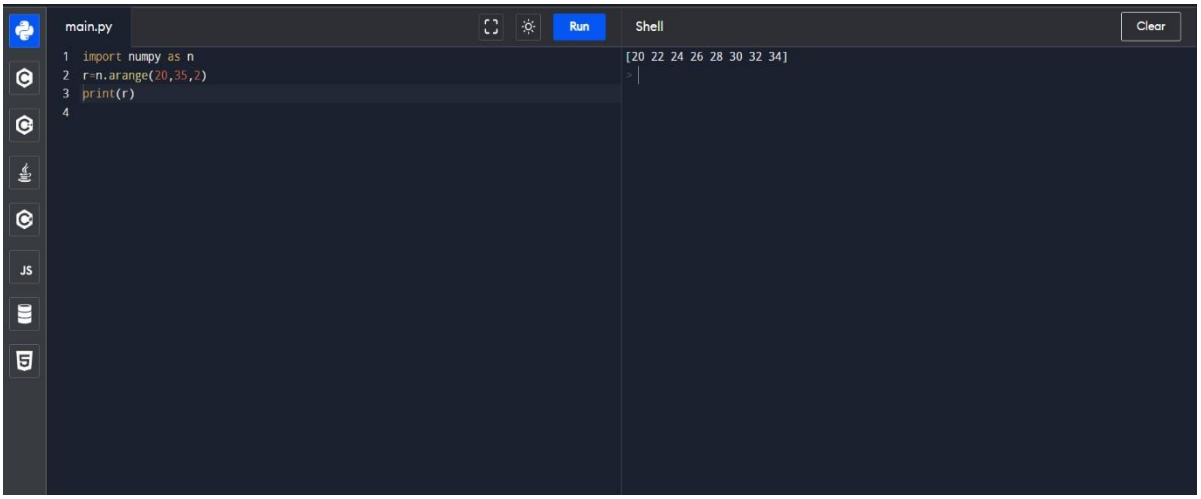



## Pandas

Question-8:

Create a dataframe with 3 rows and 2 columns Solution:

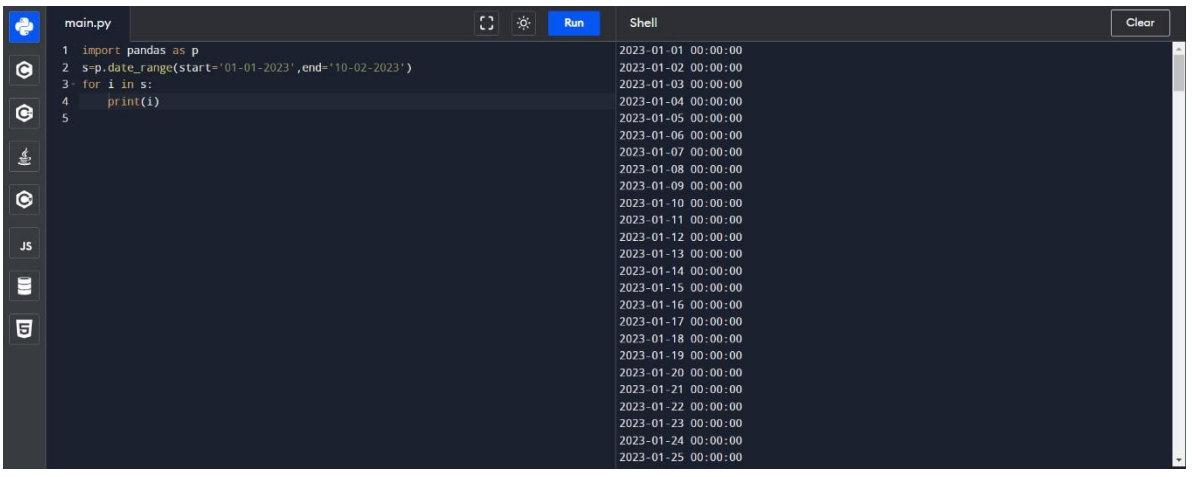
```
import numpy as n r=n.arange(20,35,2)
print(r)
```

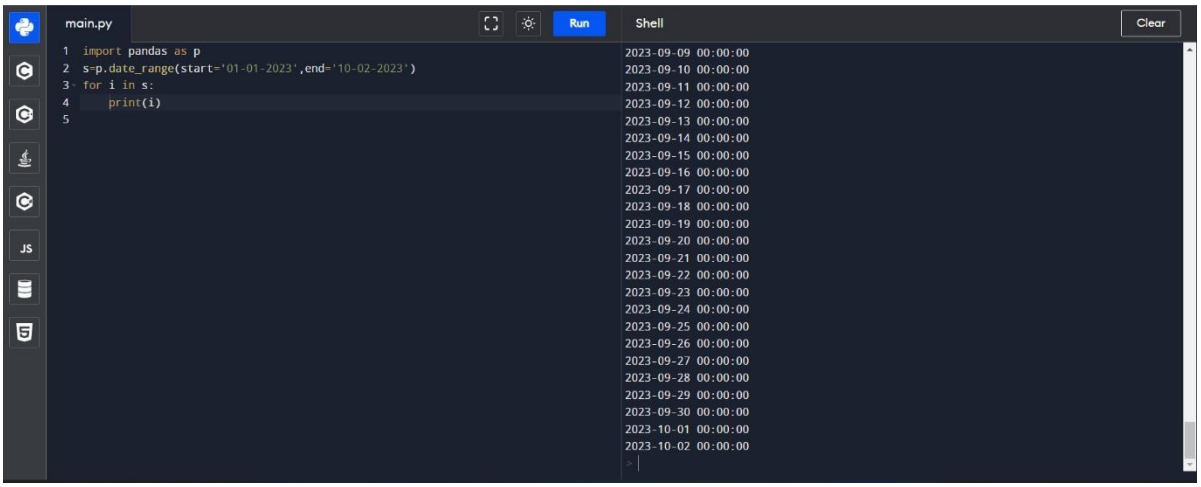



Question-9:

Generate the series of dates from 1st Jan, 2023 to 10th Feb, 2023 Solution:

```
import pandas as p s=p.date_range(start='01-01-2023',end='10-02-2023') for
i in s: print(i)
```






Question-10:

Create 2D list to DataFrame

l = [[1, 'ppp', 22], [2, 'qqq', 25], [3, 'rrr', 24]]

Solution:

```
import pandas as p
l = [[1, 'ppp', 22], [2, 'qqq', 25], [3,'rrr', 24]]
s=p.DataFrame(lists,columns=['Tag','PQR','n umber']) print(s)
```