#### Assignment -1

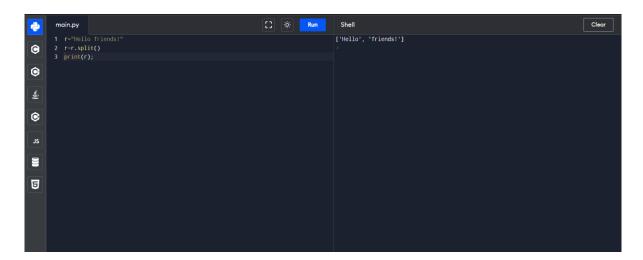
Python Programming

Assignment Date	19 September 2022
Student Name	Ms.Sowmiya.D
Student Roll Number	922519205109
Maximum Marks	2 Marks

#### Question-1:

### Split this string

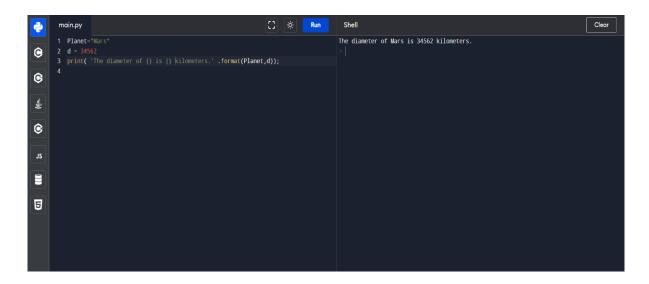
```
Solution: r="Hello
friends!"
r=r.split() print(r);
#.......#
```



#### Question-2:

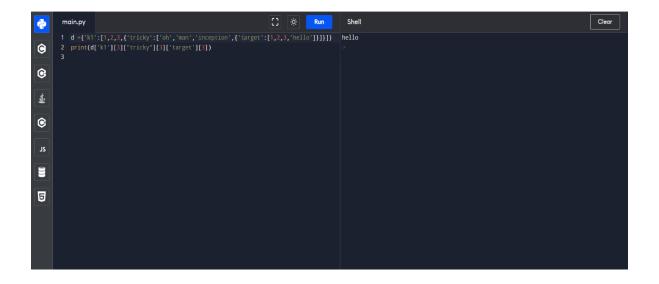
Use .format() to print the following string. Output should be: The diameter of Earth is 12742 kilometers.

# 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',{'target':[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

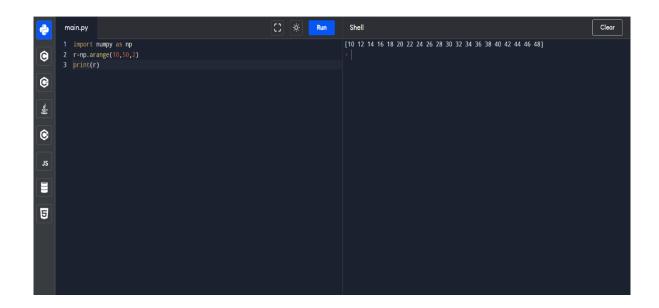


#### Question-5:

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

#### Solution:

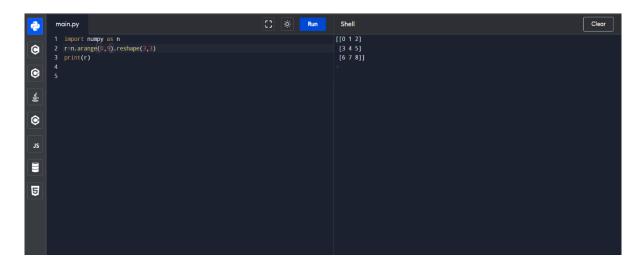
import numpy as np
r=np.arange(10,50,2) print(r)



#### Question-6:

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

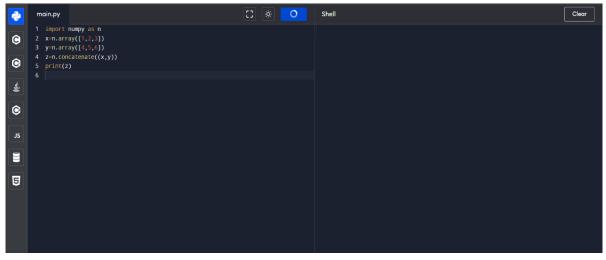
Solution: import numpy as n r=n.arange(0,9).reshape(3,3) print(r)



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**

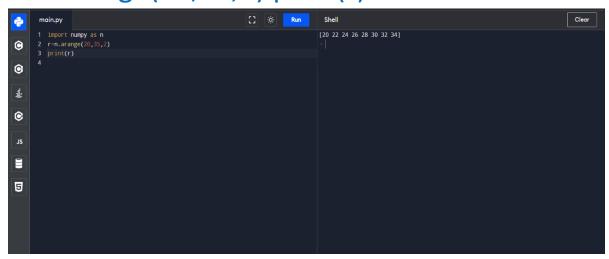
Question-8:

## 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

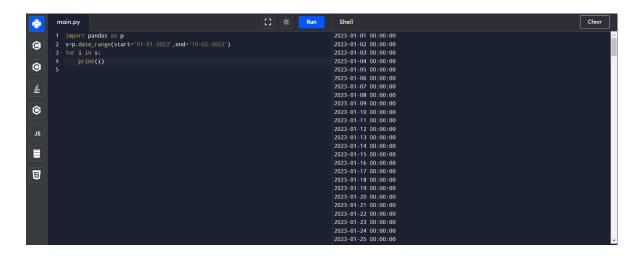
#### Solution:

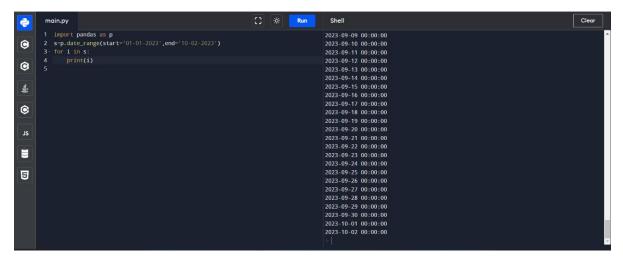
```
import pandas as p
```

```
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)

