Question-1:

Split this string

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

#...#
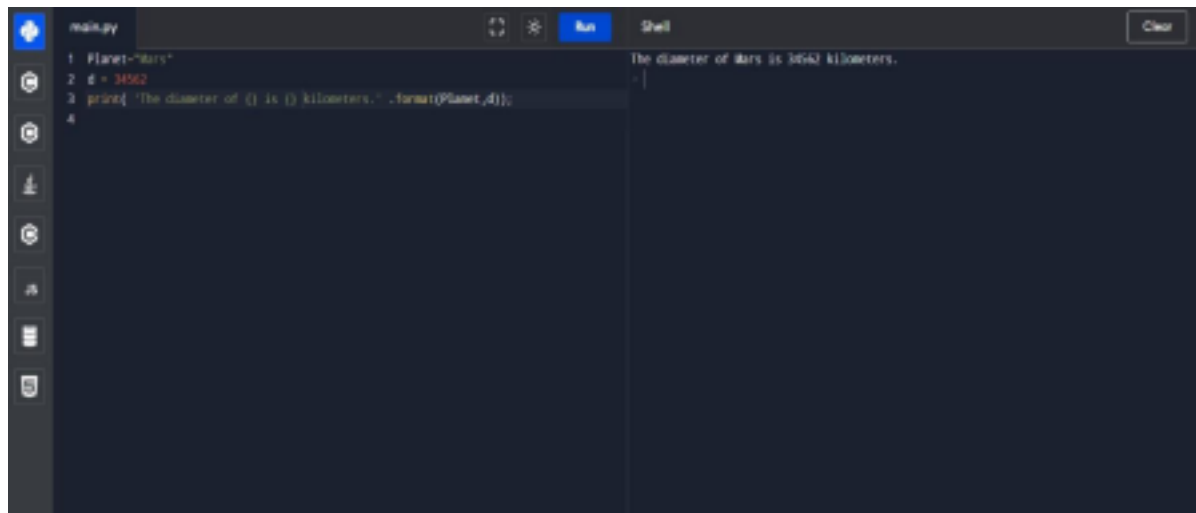#...#

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));

```
main.py                    [] *  Run    Shell                                        Clear
1  Planet="Mars"                        The diameter of Mars is 34562 kilometers.
2  d = 34562                            _|
3  print( "The diameter of {} is {} kilometers." .format(Planet,d));
4
```

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])

```
main.py                    [] *  Run    Shell                                        Clear
1  d={'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}]}   hello
2  print(d['k1'][3]["tricky"][3]['target'][3])                                        _
3
```

Question-4:

Numpy import numpy as np

4.1 Create an array of 10 zeros?

Solution: np.zeros(10)
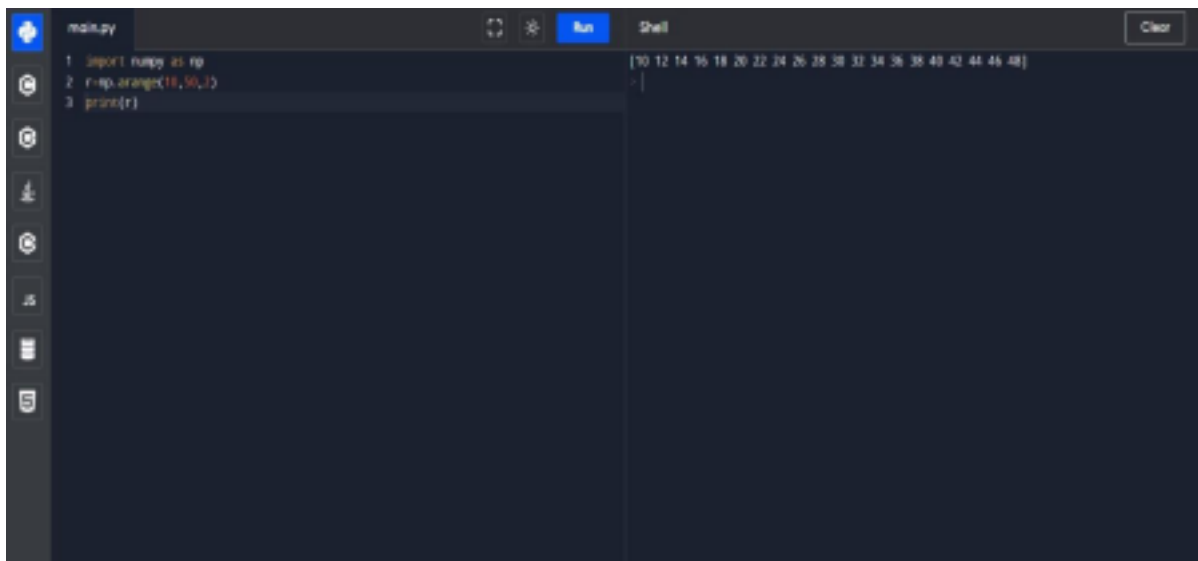
4.2 Create an array of 10 fives?

Solution:np.ones(10)*5

Numpy

import numpy as np

4.1 Create an array of 10 zeros?

4.2 Create an array of 10 fives?

np.zeros(10)
array([0., 0., 0., 0., 0., 0., 0., 0., 0., 0.])

np.ones(10)*5
array([5., 5., 5., 5., 5., 5., 5., 5., 5., 5.])

Question-5:

Create an array of all the even integers from 20 to 35 Solution:
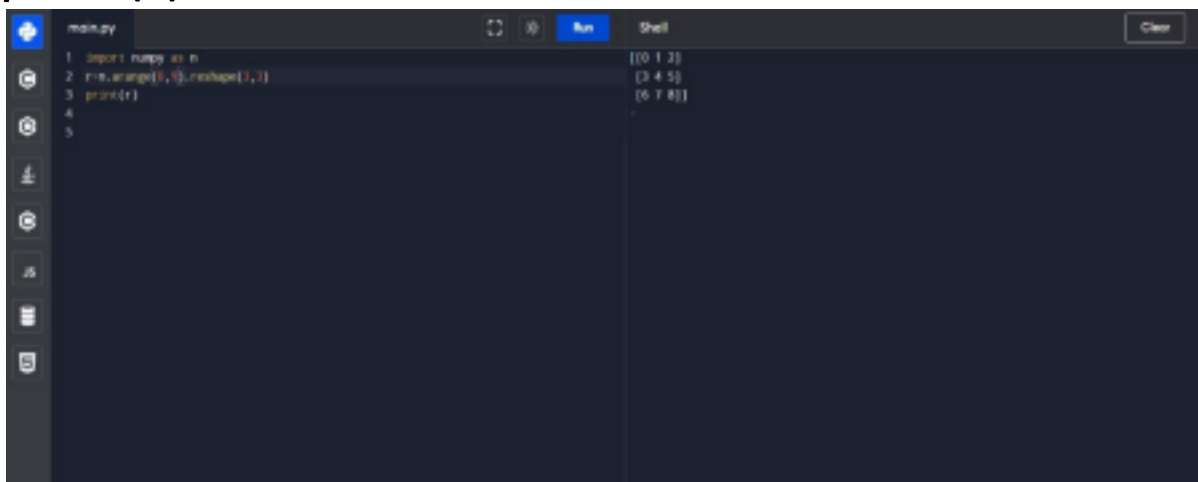
import numpy as np
r=np.arange(10,50,2) print(r)

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])
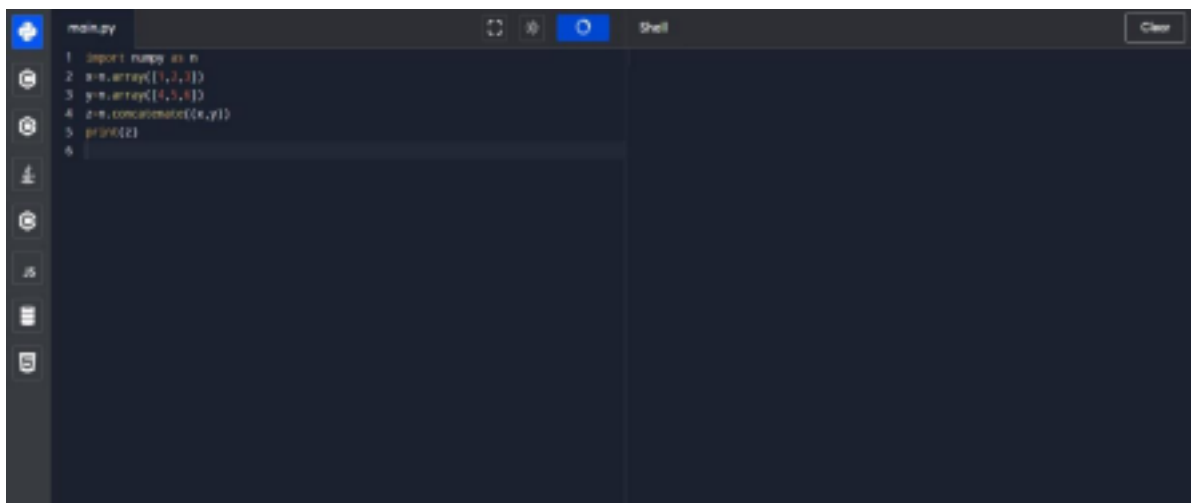
Solution:

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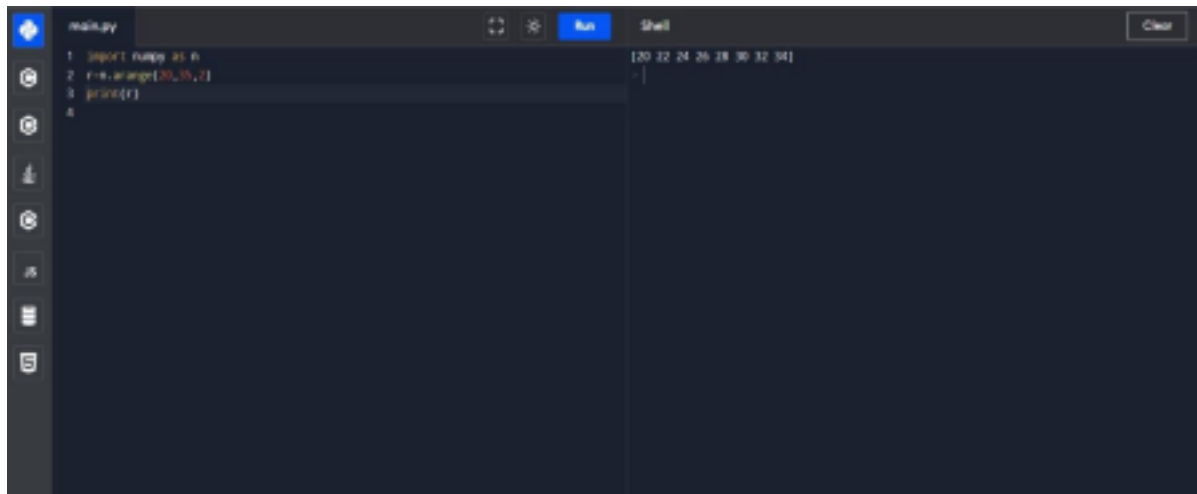

Pandas

Create a dataframe with 3 rows and 2
columns Solution:

```
import numpy as nr=n.arange(20,35,2)
print(r)
```
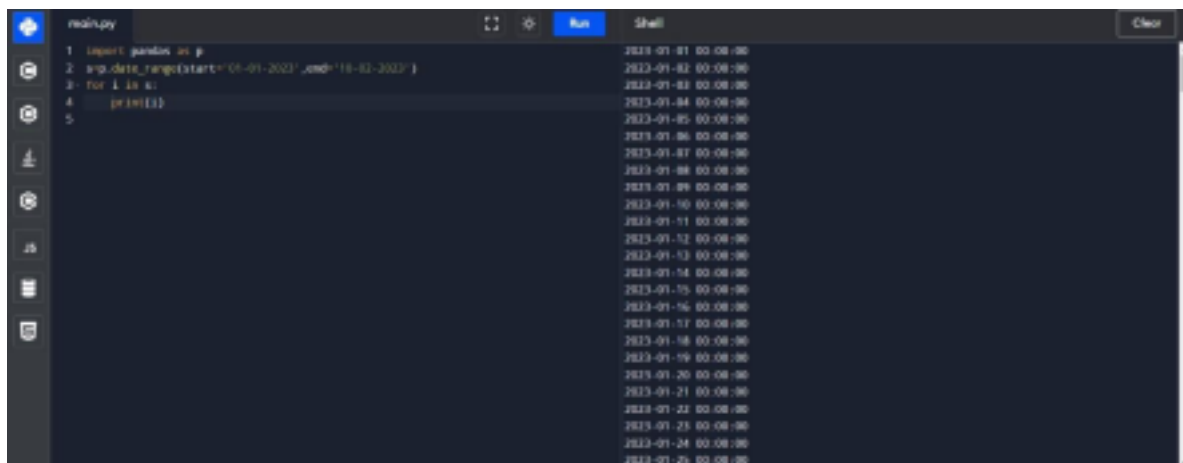
Question-9:

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

Solution:

import pandas **as** ps=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:

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