#### Assignment -1

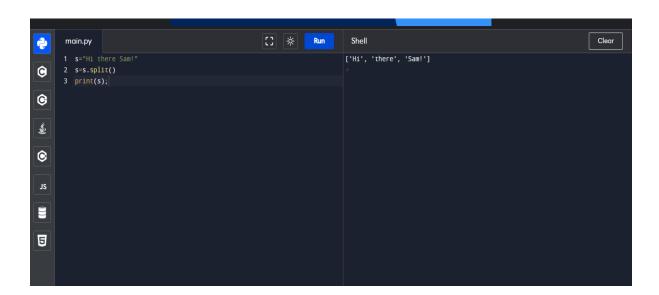
Python Programming

Assignment Date	19 September 2022	
Student Name	Ms.Shanmathi B	
Student Roll Number	922519205100	
Maximum Marks	2 Marks	

## **Question-1:**

## Split this string

```
s="Hi there Sam!"
s=s.split()
print(s);
#.....#
#
```

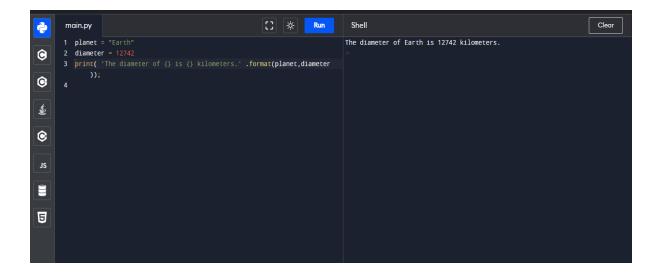


#### **Question-2:**

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

## Solution:

```
planet = "Earth"
    diameter = 12742
    print( 'The diameter of {} is {}
kilometers.' .format(planet,diameter));
```



#### **Question-3:**

In this nest dictionary grab the word "hello"

d =

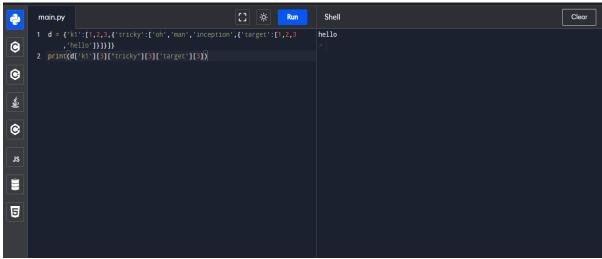
{'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}}

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?

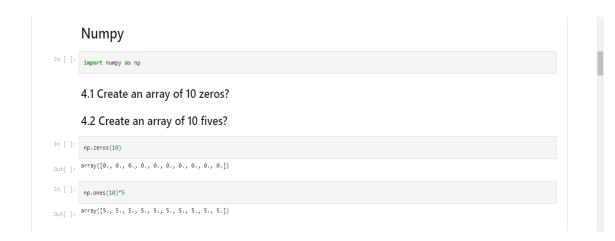
Solution:

np.zeros(10)

## 4.2 Create an array of 10 fives?

## Solution:

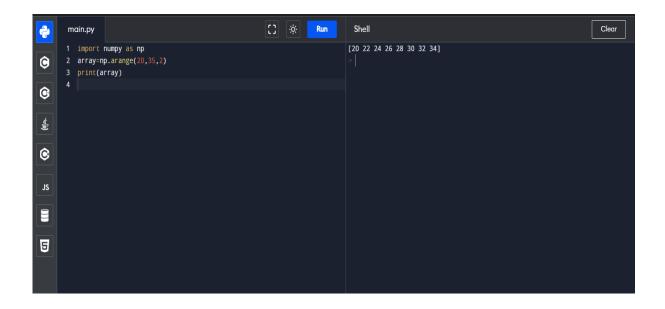
np.ones(10)\*5



### **Question-5:**

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

```
import numpy as np
array=np.arange(20,35,2)
print(array)
```

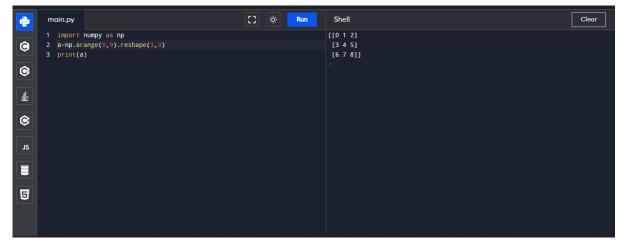


## **Question-6:**

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

## Solution:

a=np.arange(0,9).reshape(3,3)
print(a)



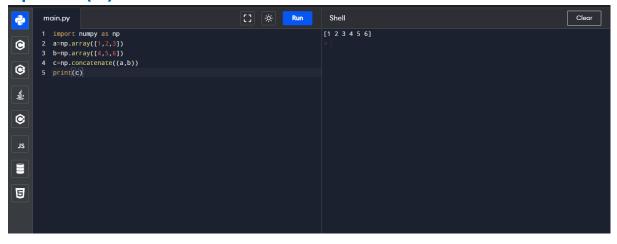
### **Question-7:**

Concatenate a and b

a = np.array([1, 2, 3]), b = np.array([4, 5, 6])

## Solution:

import numpy as np
a=np.array([1,2,3])
b=np.array([4,5,6])
c=np.concatenate((a,b))
print(c)

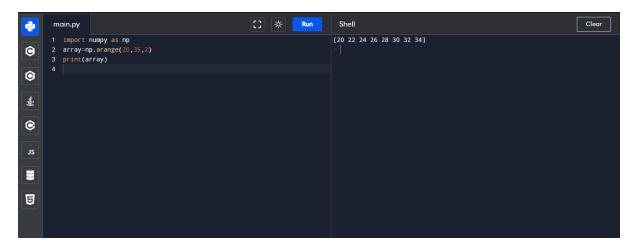


## **Pandas**

#### **Question-8:**

Create a dataframe with 3 rows and 2 columns

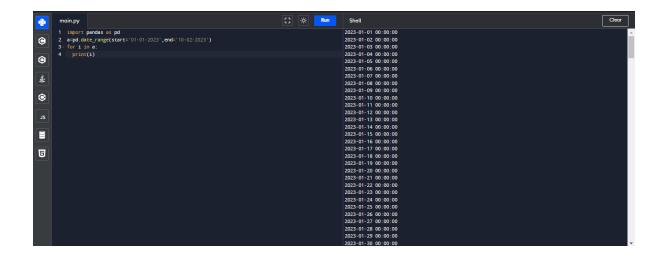
## import pandas as pd array=np.arange(20,35,2) print(array)

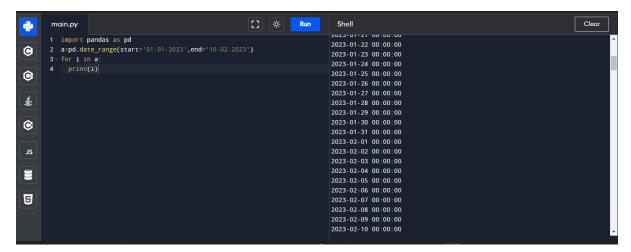


## **Question-9:**

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

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





## **Question-10:**

Create 2D list to DataFrame

lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]

## Solution:

import pandas as pd
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc',
24]]

# df=pd.DataFrame(lists,columns=['Tag','ABC','n umber']) print(df)

