Assignment Date: 13 September 2022

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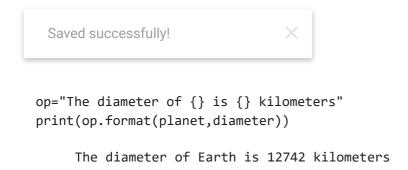
Maximum Marks: 2 Marks

▼ 1. Split this string

```
s = "Hi there Sam!"
print (s.split())
   ['Hi', 'there', 'Sam!']
```

→ 2. Use .format() to print the following string.

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



→ 3. In this nest dictionary grab the word "hello"

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

Numpy

- - 4.2 Create an array of 10 fives?

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

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

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

```
import numpy as np
array=np.arange(20,36,2)
print(array)

[20 22 24 26 28 30 32 34]
```

Saved successfully!

[6 7 8]]

values ranging from 0 to 8

```
import numpy as np
x = np.arange(0, 9).reshape(3,3)
print(x)

[[0 1 2]
       [3 4 5]
```

▼ 7. Concatenate a and b

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

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

[1 2 3 4 5 6]
```

- → Pandas
- ▼ 8. Create a dataframe with 3 rows and 2 columns

```
import pandas as pd

data = [{'A': 10, 'B': 20}, {'A':100, 'B': 200}, {'A': 20, 'B': 120}]

df = pd.DataFrame(data)

df

A B

0 10 20

1 100 200

2 20 120
```

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

```
end ='02-10-2023')
Saved successfully!
   0
         2023-01-01
   1
         2023-01-02
   2
         2023-01-03
   3
         2023-01-04
   4
         2023-01-05
   5
         2023-01-06
         2023-01-07
   6
   7
         2023-01-08
   8
         2023-01-09
   9
         2023-01-10
   10
         2023-01-11
         2023-01-12
   11
   12
         2023-01-13
   13
         2023-01-14
   14
         2023-01-15
   15
         2023-01-16
   16
         2023-01-17
   17
         2023-01-18
   18
         2023-01-19
   19
         2023-01-20
   20
         2023-01-21
   21
         2023-01-22
   22
         2023-01-23
   23
         2023-01-24
   24
        2023-01-25
```

```
25
     2023-01-26
26
     2023-01-27
27
     2023-01-28
28
     2023-01-29
29
     2023-01-30
     2023-01-31
30
31
     2023-02-01
32
     2023-02-02
33
     2023-02-03
     2023-02-04
34
35
     2023-02-05
36
     2023-02-06
37
     2023-02-07
38
     2023-02-08
39
     2023-02-09
40
     2023-02-10
dtype: datetime64[ns]
```

▼ 10. Create 2D list to DataFrame

2 3

ccc 24

• ×

Saved successfully!

V