

## ▼ Basic Python

### ▼ 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.

```
planet = "Earth"
diameter = 12742

print("The diameter of {} is {} kilometer.".format(planet,diameter))

The diameter of Earth is 12742 kilometer.
```

### ▼ 3. In this nest dictionary grab the word "hello"

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

d['k1'][3]['tricky'][3]['target'][3]

'hello'
```

## ▼ Numpy

```
import numpy as np
```

### ▼ 4.1 Create an array of 10 zeros?

## 4.2 Create an array of 10 fives?

```
a=np.zeros(10)
```

```
b=np.ones(10)*5
```

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

```
S=np.arange(20,35,2)
```

### ▼ 6. Create a 3x3 matrix with values ranging from 0 to 8

```
S=np.arange(20,35,2)
```

### ▼ 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])  
np. concatenate((a,b),axis=0)  
  
array([1, 2, 3, 4, 5, 6])
```

### ▼ Pandas

### ▼ 8. Create a dataframe with 3 rows and 2 columns

```
import pandas as pd
```

```
d={"name":["mohan","kumar","jaya"],"age":[20,19,18]}
```

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

```
p=pd.date_range(start='1-1-2023',end='10-2-2023')
for val in p:
    print(val)
```

```
2023-08-06 00:00:00
2023-08-07 00:00:00
2023-08-08 00:00:00
2023-08-09 00:00:00
2023-08-10 00:00:00
2023-08-11 00:00:00
2023-08-12 00:00:00
2023-08-13 00:00:00
2023-08-14 00:00:00
2023-08-15 00:00:00
2023-08-16 00:00:00
2023-08-17 00:00:00
2023-08-18 00:00:00
2023-08-19 00:00:00
2023-08-20 00:00:00
2023-08-21 00:00:00
2023-08-22 00:00:00
2023-08-23 00:00:00
2023-08-24 00:00:00
2023-08-25 00:00:00
2023-08-26 00:00:00
2023-08-27 00:00:00
2023-08-28 00:00:00
2023-08-29 00:00:00
2023-08-30 00:00:00
2023-08-31 00:00:00
2023-09-01 00:00:00
2023-09-02 00:00:00
2023-09-03 00:00:00
2023-09-04 00:00:00
2023-09-05 00:00:00
2023-09-06 00:00:00
2023-09-07 00:00:00
2023-09-08 00:00:00
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2023-09-10 00:00:00
2023-09-11 00:00:00
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2023-09-16 00:00:00
2023-09-17 00:00:00
2023-09-18 00:00:00
2023-09-19 00:00:00
2023-09-20 00:00:00
2023-09-21 00:00:00
2023-09-22 00:00:00
```

```
2023-09-23 00:00:00
2023-09-24 00:00:00
2023-09-25 00:00:00
2023-09-26 00:00:00
2023-09-27 00:00:00
2023-09-28 00:00:00
2023-09-29 00:00:00
2023-09-30 00:00:00
2023-10-01 00:00:00
2023-10-02 00:00:00
```

## ▼ 10. Create 2D list to DataFrame

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

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

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

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

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✓ 0s completed at 11:07 AM

