Basic Python

▼ 1. Split this string

```
s = "Hi there Sam!"

x=s.split()
print(x)
    ['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 {planet} is {diameter} kilometers.'.format(planet="Earth",diameter=127)
    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']}]}]
ans=d['k1'][3]['tricky'][3]['target'][3]
print(ans)
hello
```

Numpy

```
import numpy as np
```


4.2 Create an array of 10 fives?

```
array=np.zeros(10)
print('The array with 10 zeros:')
print(array)

    The array with 10 zeros:
       [0. 0. 0. 0. 0. 0. 0. 0. 0.]

array=np.ones(10)*5
print('The array with 10 fives:')
print(array)

    The array with 10 fives:
       [5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.]
```

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

```
array=np.arange(20,35,2)
print('The array of all the even integer from 20 to 35:')
print(array)

The array of all the even integer from 20 to 35:
  [20 22 24 26 28 30 32 34]
```

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

```
array=np.arange(0,9).reshape(3,3)
print('The matrix with values ranges from 0 to 8:')
print(array)

The matrix with values ranges from 0 to 8:
   [[0 1 2]
   [3 4 5]
   [6 7 8]]
```

▼ 7. Concatinate 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])
x=np.concatenate((a,b),axis=0)
print('The concatenation of two array a and b:')
print(x)

The concatenation of two array a and b:
  [1 2 3 4 5 6]
```

Pandas

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

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

```
datetime.datetime(2023, 1, 10, 0, 0),
datetime.datetime(2023, 1, 11, 0, 0),
datetime.datetime(2023, 1, 12, 0, 0),
datetime.datetime(2023, 1, 13, 0, 0),
datetime.datetime(2023, 1, 14, 0, 0),
datetime.datetime(2023, 1, 15, 0, 0),
datetime.datetime(2023, 1, 16, 0, 0),
datetime.datetime(2023, 1, 17, 0, 0),
datetime.datetime(2023, 1, 18, 0, 0),
datetime.datetime(2023, 1, 19, 0, 0),
datetime.datetime(2023, 1, 20, 0, 0),
datetime.datetime(2023, 1, 21, 0, 0),
datetime.datetime(2023, 1, 22, 0, 0),
datetime.datetime(2023, 1, 23, 0, 0),
datetime.datetime(2023, 1, 24, 0, 0),
datetime.datetime(2023, 1, 25, 0, 0),
datetime.datetime(2023, 1, 26, 0, 0),
datetime.datetime(2023, 1, 27, 0, 0),
datetime.datetime(2023, 1, 28, 0, 0),
datetime.datetime(2023, 1, 29, 0, 0),
datetime.datetime(2023, 1, 30, 0, 0),
datetime.datetime(2023, 1, 31, 0, 0),
datetime.datetime(2023, 2, 1, 0, 0),
datetime.datetime(2023, 2, 2, 0, 0),
datetime.datetime(2023, 2, 3, 0, 0),
datetime.datetime(2023, 2, 4, 0, 0),
datetime.datetime(2023, 2, 5, 0, 0),
datetime.datetime(2023, 2, 6, 0, 0),
datetime.datetime(2023, 2, 7, 0, 0),
datetime.datetime(2023, 2, 8, 0, 0),
datetime.datetime(2023, 2, 9, 0, 0),
datetime.datetime(2023, 2, 10, 0, 0)]
```

▼ 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]]
df = pd.DataFrame(lists,columns=['column1','column2','column3'])
print('The 2D list of dataframe:')
print(df)
     The 2D list of dataframe:
        column1 column2 column3
                                22
     0
               1
                     aaa
     1
               2
                      bbb
                                25
               3
                     CCC
                                24
```

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