Basic Python

▼ 1. Split this string

```
s = "Hi there Sam!"

s = "Hi there Sam!"

print(s.split())

['Hi', 'there', 'Sam!']

italicized text ## 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 {} kilometers.".format(planet,diameter));
    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']}]}]

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?

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

```
array=np.arange(20,36,2)
print("Array of all the even integers from 20 to 35")
print(array)

Array of all the even integers from 20 to 35
[20 22 24 26 28 30 32 34]
```

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

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

[[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])

Pandas

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

```
import pandas as pd
import pandas as pd
a=[['A'],['B'],['C']]
b= pd.DataFrame(a,columns=['Alphabets'])
b
```

	Alphabets
0	А
1	В
2	С

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

▼ 10. Create 2D list to DataFrame

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

 d_list

```
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
import pandas as pd
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
d_list=pd.DataFrame(lists,columns=['A','B','C'])
```

	Α	В	C
0	1	aaa	22
1	2	bbb	25
2	3	ccc	24

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