- Basic Python
 - 1. Split this string

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```
s = "Hi there Sam!"
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 {} kilometers.'.format(planet,diameter))
    The diameter of Earth kilometers.
```

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

Numpy

```
import numpy as np
```

- - 4.2 Create an array of 10 fives?

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

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

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

array

array([20, 22, 24, 26, 28, 30, 32, 34])
```

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

▼ 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])
```

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

→ Pandas

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

```
import pandas as pd

Datainput=[['Keerthi',95],['Rithika',96],['Pavithra',98]]

Output=pd.DataFrame(Datainput,columns=['Name','Marks'])

Output
```

	Name	Marks
0	Keerthi	95
1	Rithika	96
2	Pavithra	98

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]]

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

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d=pd.DataFrame(lists)
```

d

	0	1	2
0	1	aaa	22
1	2	bbb	25
2	3	ccc	24