Basic Python

▼ 1. Split this string

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

Numpy

```
import numpy as np
```

- - 4.2 Create an array of 10 fives?

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

```
import numpy as np
s=np.arange(20,35,2)
s
array([20, 22, 24, 26, 28, 30, 32, 34])
```

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

7. Concatinate a and b

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

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

```
array([[0, 1, 2],
[3, 4, 5],
[6, 7, 8]])
```

→ Pandas

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

```
import pandas as pd
d = {"name":["jerry","tom","ishu"],"age":[20,17,15]}
df = pd.DataFrame(d)
df
```

	name	age
0	jerry	20
1	tom	17
2	ishu	15

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

```
import pandas as pd
P = pd.date_range(start='1-1-2023',end='10-2-2023')
for val in P:
 print(val)
     2023-01-01 00:00:00
     2023-01-02 00:00:00
     2023-01-03 00:00:00
     2023-01-04 00:00:00
     2023-01-05 00:00:00
     2023-01-06 00:00:00
     2023-01-07 00:00:00
     2023-01-08 00:00:00
     2023-01-09 00:00:00
     2023-01-10 00:00:00
     2023-01-11 00:00:00
     2023-01-12 00:00:00
     2023-01-13 00:00:00
     2023-01-14 00:00:00
```

```
2023-01-15 00:00:00
2023-01-16 00:00:00
2023-01-17 00:00:00
2023-01-18 00:00:00
2023-01-19 00:00:00
2023-01-20 00:00:00
2023-01-21 00:00:00
2023-01-22 00:00:00
2023-01-23 00:00:00
2023-01-24 00:00:00
2023-01-25 00:00:00
2023-01-26 00:00:00
2023-01-27 00:00:00
2023-01-28 00:00:00
2023-01-29 00:00:00
2023-01-30 00:00:00
2023-01-31 00:00:00
2023-02-01 00:00:00
2023-02-02 00:00:00
2023-02-03 00:00:00
2023-02-04 00:00:00
2023-02-05 00:00:00
2023-02-06 00:00:00
2023-02-07 00:00:00
2023-02-08 00:00:00
2023-02-09 00:00:00
2023-02-10 00:00:00
2023-02-11 00:00:00
2023-02-12 00:00:00
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2023-02-14 00:00:00
2023-02-15 00:00:00
2023-02-16 00:00:00
2023-02-17 00:00:00
2023-02-18 00:00:00
2023-02-19 00:00:00
2023-02-20 00:00:00
2023-02-21 00:00:00
2023-02-22 00:00:00
2023-02-23 00:00:00
2023-02-24 00:00:00
2023-02-25 00:00:00
2023-02-26 00:00:00
2022 02 27 00.00.00
```

▼ 10. Create 2D list to DataFrame

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

df = pd.DataFrame(lists)
df

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

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