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Basic Python

1. Split this string

```
s = "Hi there Sam!"  
a = s.split()  
print(a)
```


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


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Basic Python

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

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assignment_1.py ^

Assignment_1.ipynb ^



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[]

2. Use .format() to print the following string.

Output should be: The diameter of Earth is 12742 kilometers.

0s ✓

```
planet = "Earth"
diameter = 12742
txt="The diameter of {} is {} kilometers".format(planet,diameter)
print(txt)
```

☞ The diameter of Earth is 12742 kilometers

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[]

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

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

hello
```

[14]

Numpy

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4.1 Create an array of 10 zeros?

4.2 Create an array of 10 fives?

```
[16] import numpy as np  
      array=np.zeros(10)  
      print(array)
```

```
[0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
```

```
import numpy as np  
array=np.ones(10)*5  
print(array)
```

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```
import numpy as np
array=np.ones(10)*5
print(array)
```

[5. 5. 5. 5. 5. 5. 5. 5. 5. 5.]

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

```
import numpy as np
array=np.arange(20,35,2)
print(array)
```

[20 22 24 26 28 30 32 34]

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

```
[22] import numpy as np  
matrix=np.arange(0,9).reshape(3,3)  
print(matrix)  
  
[[0 1 2]  
 [3 4 5]  
 [6 7 8]]
```

7. Concatenate a and b

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

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7. Concatenate a and b

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

[25] import numpy as np
a=np.array([1,2,3])
b=np.array([4,5,6])
con=np.concatenate([a,b])
print(con)

[1 2 3 4 5 6]

Pandas

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8. Create a dataframe with 3 rows and 2 columns

```
import pandas as pd
data=[['Bean',20],['Tom',15],['Jerry',10]]
df=pd.DataFrame(data,columns=['Name','Age'])
print(df)
```

	Name	Age
0	Bean	20
1	Tom	15
2	Jerry	10

[]

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

```
import pandas as pd
date=pd.date_range(start='01-01-2023',end='02-10-2023')
print(date)
```

```
DatetimeIndex(['2023-01-01', '2023-01-02', '2023-01-03', '2023-01-04',
               '2023-01-05', '2023-01-06', '2023-01-07', '2023-01-08',
               '2023-01-09', '2023-01-10', '2023-01-11', '2023-01-12',
               '2023-01-13', '2023-01-14', '2023-01-15', '2023-01-16',
               '2023-01-17', '2023-01-18', '2023-01-19', '2023-01-20',
               '2023-01-21', '2023-01-22', '2023-01-23', '2023-01-24',
               '2023-01-25', '2023-01-26', '2023-01-27', '2023-01-28',
               '2023-01-29', '2023-01-30', '2023-01-31', '2023-02-01',
               '2023-02-02', '2023-02-03', '2023-02-04', '2023-02-05',
               '2023-02-06', '2023-02-07', '2023-02-08', '2023-02-09',
               '2023-02-10'],
              dtype='datetime64[ns]', freq='D')
```

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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,columns=['SI.NO','Name','Number'])
print(df)
```

	SI.NO	Name	Number
0	1	aaa	22
1	2	bbb	25
2	3	ccc	24

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