Basic Python

1. Split this string

```
In [ ]:  s = "Hi there Sam!"
```

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

italicized text ## 2. Use .format() to print the following string.

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

```
In [19]:  planet = "Earth"
          diameter = 12742
          print( 'The diameter of {} is {} kilometers.' .format(planet,diameter));
```

The diameter of Earth is 12742 kilometers.

```
In [6]:
```

The diameter of Earth is 12742 kilometers.

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

```
In [18]:  d = {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}]}
          print( d['k1'][3]['tricky'][3]['target'][3])
```

hello

```
In [ ]:
```

Numpy

```
In [ ]:  import numpy as np
```

4.1 Create an array of 10 zeros?

4.2 Create an array of 10 fives?

```
In [16]:  import numpy as np
          array=np.zeros(10)
          print("An array of 10 Zeros,")
          print(array)
```

An array of 10 Zeros,
[0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]

```
In [18]:  array=np.ones(10)*5
          print("An array of 10 fives.")
          print(array)
```

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```
An array of 10 fives.
[5. 5. 5. 5. 5. 5. 5. 5. 5. 5.]
```

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

```python
In [1]: import numpy as np
        array=np.arange(20,35,2)
        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

```python
In [4]: np.arange(0,9).reshape((3,3))
```

```
Out[4]: array([[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])

```python
In [7]: import numpy as np
        arr1=np.array([1,2,3])
        arr2=np.array([4,5,6])
        arr3=np.concatenate(([arr1,arr2]),axis=0)
```

Pandas

8. Create a dataframe with 3 rows and 2 columns

```python
In [21]: import pandas as pd
         data={'Name':['Tom','Jack'],
          'marks':[99,98],
          'grade':['A','B']
              }
         df=pd.DataFrame(data,index=['rank1','rank2'])
         df
```

Out[21]:

	Name	marks	grade
rank1	Tom	99	A
rank2	Jack	98	B

In [9]:

```
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
~\AppData\Local\Temp\ipykernel_7248\1331919360.py in <module>
----> 1 df=pd.Dataframe(data,index=['rank1','rank2'])
      2 df


C:\ProgramData\Anaconda3\lib\site-packages\pandas\__init__.py in __getattr__(name)
    259            return _SparseArray
    260
--> 261        raise AttributeError(f"module 'pandas' has no attribute '{name}'")
    262
    263


AttributeError: module 'pandas' has no attribute 'Dataframe'
```

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

```
In [1]:  import pandas as pd
         per1 = pd.date_range(start ='1-1-2023',
                 end ='10-02-2023', freq ='5H')
         for val in per1:
             print(val)
```

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10. Create 2D list to DataFrame

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

In [5]:
```python
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
```

In [2]:
```python
import pandas as pd
list=[[1,'aaa',22],[2,'bbb',25],[3,'ccc',24]]
df=pd.DataFrame(list,columns=['No','Name','Age'])
df
import pandas as pd
per1=pd.date_range(start='1-1-2023',end='10-02-2023',freq='5H')
for val in per1:
    print(val)
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