ASSIGNMENT-1

Student Name   : ENIYAN T S

Student Roll Number: 111519106033

```python
## 1. Split this string
"""

s = "Hi there Sam!"

s.split()

"""
## 2. Use .format() to print the following string.
### Output should be: The diameter of Earth is 12742 kilometers.
"""

planet = "Earth"
diameter = 12742

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

"""## 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'][3]['tricky'][3]['target'][3]

"""# Numpy"""
```

```python
import numpy as np

"""## 4.1 Create an array of 10 zeros?
## 4.2 Create an array of 10 fives?
"""

np.zeros(10)

np.ones(10)*5

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

np.arange(20,35,2)

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

np.arange(0,9).reshape(3,3)

"""## 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])

"""# Pandas
## 8. Create a dataframe with 3 rows and 2 columns
"""

import pandas as pd

data={'Name':['Tom','nick','krish'],'Age': [20,21,19]}

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

```python
import pandas
from datetime import date, timedelta

sdate = date(2023,1,1)
edate = date(2023,2,11)
print(pandas.date_range(sdate,edate-timedelta(days=1),freq='d'))

"""## 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]]

lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
pd.DataFrame(lists,columns =['Id','Name',"Marks"])
```