In [1]:
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```

In [2]:
```
data=pd.read_excel("/content/Crude Oil Prices Daily.xlsx")
```

In [3]:
```
data.isnull().any()
```

Out[3]:
```
Date             False
Closing Value     True
dtype: bool
```

In [4]:
```
data.isnull().sum()
```

Out[4]:
```
Date             0
Closing Value    7
dtype: int64
```

In [5]:
```
data.dropna(axis=0,inplace=True)
```

In [6]:
```
data.isnull().sum()
```

Out[6]:
```
Date             0
Closing Value    0
dtype: int64
```

In [7]:
```
data_oil=data.reset_index()['Closing Value']
data_oil
```

Out[7]:
```
0       25.56
1       26.00
2       26.53
3       25.85
4       25.87
        ...
8211    73.89
8212    74.19
8213    73.05
8214    73.78
8215    73.93
Name: Closing Value, Length: 8216, dtype: float64
```

In [8]:
```
from sklearn.preprocessing import MinMaxScaler
scaler=MinMaxScaler(feature_range=(0,1))
data_oil=scaler.fit_transform(np.array(data_oil).reshape(-1,1))
```

In [9]:
```
data_oil
```

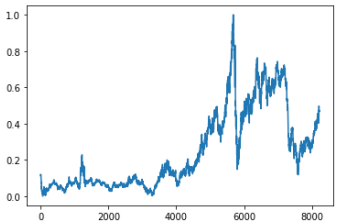
Out[9]:
```
array([[0.11335703],
       [0.11661484],
       [0.12053902],
       ...,
       [0.46497853],
       [0.47038353],
       [0.47149415]])
```

In [10]:
```
plt.plot(data_oil)
```

Out[10]:
```
[]
```

In [10]:
```
plt.plot(data_oil)
```

Out[10]: []



In [11]:
```
training_size=int(len(data_oil)*0.65)
test_size=len(data_oil)-training_size
train_data,test_data=data_oil[0:training_size,:],data_oil[training_size:len(data_oil),:1]
```

In [12]:
```
training_size,test_size
```

Out[12]: (5340, 2876)

In [13]:
```
train_data.shape
```

Out[13]: (5340, 1)