Importing libraries

In [2]:

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
```

importing datasets

```
In [3]:
```

```
df=pd.read_csv('Combined_Cycle_Power_Plant.csv')
```

In [20]:

```
X=df.iloc[:,:-1].values
Y=df.iloc[:,-1].values
```

Splitting the dataset into the Training & Test set

```
In [48]:
```

```
from sklearn.model_selection import train_test_split
x_train,x_test,y_train,y_test=train_test_split(X,Y,test_size=0.2,random_state=0)
```

Decision Tree Regression model Training on the Training set

```
In [50]:
```

```
from sklearn.tree import DecisionTreeRegressor
regressor=DecisionTreeRegressor(random_state=2)
regressor.fit(x_train,y_train)
```

Out[50]:

```
DecisionTreeRegressor

DecisionTreeRegressor(random_state=2)
```

Test set results Predictions

Model Performance Evaluation

```
In [32]:
```

from sklearn.metrics import r2_score,mean_squared_error as mse,mean_absolute_error as mae

```
In [37]:
```

```
print(r2_score(y_pred,y_test))
print(mae(y_pred,y_test))
np.sqrt(mse(y_pred,y_test))
```

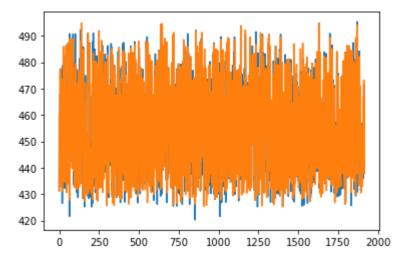
```
0.9170022965392857
3.1544252873563217
Out[37]:
```

4.880126937254804

Visualization

In [47]:

```
plt.plot(y_pred)
plt.plot(y_test)
plt.show()
```



In []: