```
import pandas as pd
import numpy as np
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression
from sklearn.metrics import mean_squared_error, r2_score
import matplotlib.pyplot as plt


data = pd.read_excel('/content/Concrete_Data.xls')


X = data.drop('Water  (component 4)(kg in a m^3 mixture)', axis=1)
y = data['Cement (component 1)(kg in a m^3 mixture)']


X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)


model = LinearRegression()
model.fit(X_train, y_train)
```

▾ LinearRegression

LinearRegression()

```
y_pred = model.predict(X_test)


mse = mean_squared_error(y_test, y_pred)
r2 = r2_score(y_test, y_pred)


print('Mean Squared Error:', mse)
print('R-squared score:', r2)
```

```
Mean Squared Error: 1.0195452786701077e-26
R-squared score: 1.0
```