

EVALUATION METRICS

#importing necessary libraries to find evaluation of the model

```
from sklearn.metrics import r2_score
from sklearn.metrics import mean_squared_error
import math
```

#mean squared error

```
MSE=mean_squared_error(y_test,y_pred)
print("MSE:",MSE)
```

MSE: 3837929.3862338685

#Root mean squared error

```
RMSE=math.sqrt(MSE)
print("RMSE:",RMSE)
```

RMSE: 1959.063395154396

#checking the performance of the model using r2_score

```
r2=r2_score(y_test,y_pred)
print("R2_score:",r2)
```

R2_score: 0.840904862881962

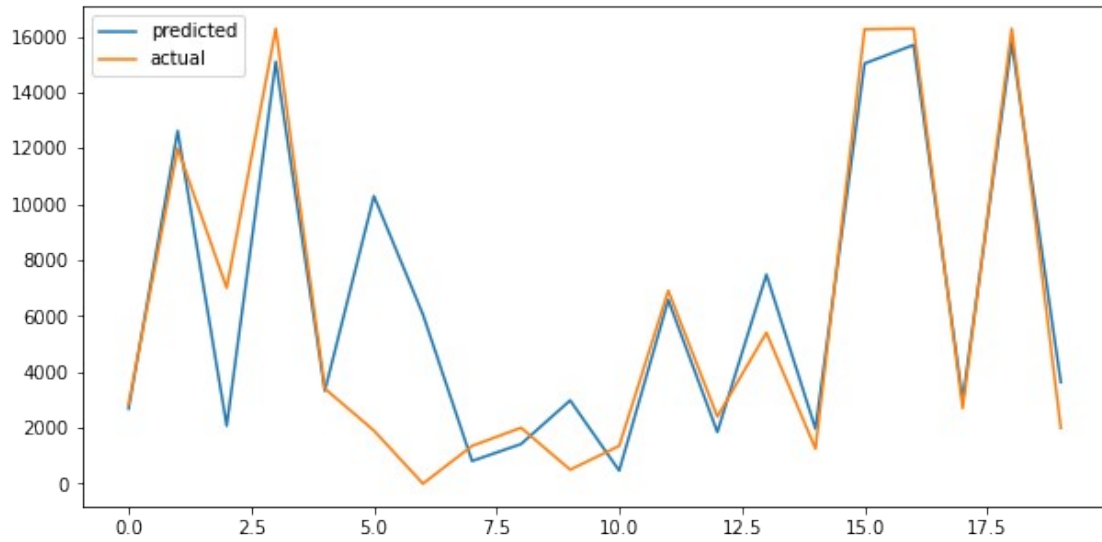
#Adjusted R square

```
Adjusted_R2=1-(1-r2*((x_test.shape[0]-1)/(x_test.shape[0]-
x_test.shape[1]-1)))
print("Adjusted R2:",Adjusted_R2)
```

Adjusted R2: 0.841022575799409

#plot for predicted and actual price

```
plt.figure(figsize=(10,5))
plt.plot(y_pred[0:20])
plt.plot(np.array(y_test[0:20]))
plt.legend(["predicted","actual"])
plt.show()
```



```
print("The accuracy of the RandomForestRegression:",r2)
```

The accuracy of the RandomForestRegression: 0.840904862881962