In [56]:
```python
import pandas as pd
#import classification algo
from sklearn.linear_model import LogisticRegression
from sklearn.metrics import accuracy_score
```

In [57]:
```python
df = pd.read_csv('House_Rent_main6.csv')
df1= df
```

In [58]:
```python
x = df1[['Furnishing Status', 'Bathroom','City']]
y = df1['BHK']
```

In [59]:
```python
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)
```

In [60]:
```python
#Classification model
model = LogisticRegression()
model.fit(X_train, y_train)
y_pred = model.predict(X_test)
```

```
C:\Users\Asus\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn
\linear_model\_logistic.py:458: ConvergenceWarning: lbfgs failed to converge (s
tatus=1):
STOP: TOTAL NO. of ITERATIONS REACHED LIMIT.

Increase the number of iterations (max_iter) or scale the data as shown in:
    https://scikit-learn.org/stable/modules/preprocessing.html (https://scikit-
learn.org/stable/modules/preprocessing.html)
Please also refer to the documentation for alternative solver options:
    https://scikit-learn.org/stable/modules/linear_model.html#logistic-regressi
on (https://scikit-learn.org/stable/modules/linear_model.html#logistic-regressi
on)
  n_iter_i = _check_optimize_result(
```

In [61]:
```python
#Accuracy and Confusion matrix
from sklearn.metrics import confusion_matrix
cm = confusion_matrix(y_test, y_pred)
print(accuracy_score(y_test, model.predict(X_test)))
```

```
0.7563559322033898
```

In [ ]:

In [ ]: