

```
In [ ]: import pandas as pd
        naan_tikki = pd.read_csv('naan_tikki.csv')
        naan_tikki
```

```
Out[ ]:   tikki  naan  sale_value
0      3     5         10
1      5     8         15
2      5    10         20
3      7    10         25
4     10    15         30
5     20    15         45
```

```
In [ ]: from sklearn.linear_model import LinearRegression
```

```
In [ ]: X = naan_tikki[['tikki', 'naan']]
        X.head()
```

```
Out[ ]:   tikki  naan
0      3     5
1      5     8
2      5    10
3      7    10
4     10    15
```

```
In [ ]: y = naan_tikki['sale_value']
        y.head()
```

```
Out[ ]: 0     10
1     15
2     20
3     25
4     30
Name: sale_value, dtype: int64
```

```
In [ ]: model = LinearRegression().fit(X, y)
        model
```

```
Out[ ]: LinearRegression()
```

```
In [ ]: from sklearn.model_selection import train_test_split
        from sklearn.metrics import r2_score
        import matplotlib.pyplot as plt
        import seaborn as sns
        X_train,X_test,y_train,y_test=train_test_split(X, y, test_size=0.2, random_state=0)
        y_pred = model.predict([[15,25]])
        y_pred
```

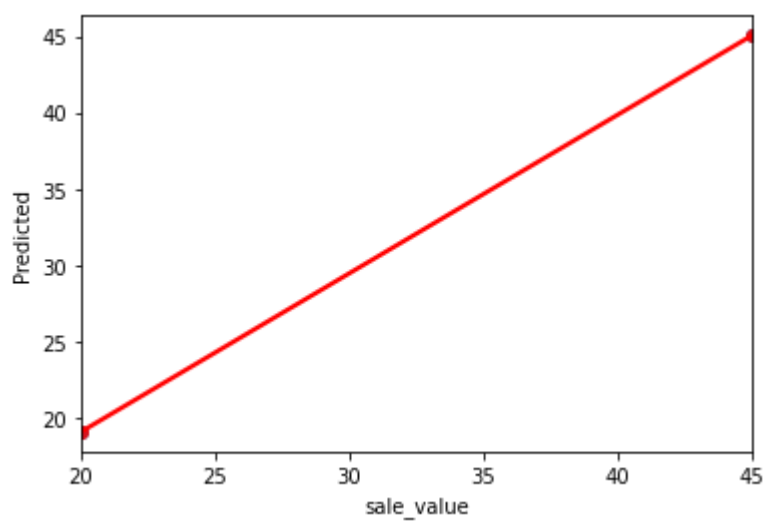
```
Out[ ]: array([49.44804971])
```

```
In [ ]: predictions = model.predict(X_test)
        Accuracy = r2_score(y_test, predictions)*100
        Accuracy
```

```
Out[ ]: 99.72988334855108
```

```
In [ ]: plt.scatter(y_test,y_pred)
plt.xlabel('Actual')
plt.ylabel('Predicted')
sns.regplot(x=y_test,y=y_pred,ci=None,color='red')
```

Out[]: <AxesSubplot:xlabel='sale_value', ylabel='Predicted'>



In []: