```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
data=pd.read csv('Walmart Store sales.csv')
data.head()
   Store
                Date
                      Weekly Sales
                                    Holiday Flag Temperature
Fuel Price \
         05-02-2010
                        1643690.90
                                                         42.31
       1
                                                0
2.572
                        1641957.44
         12-02-2010
                                                1
                                                         38.51
       1
1
2.548
       1 19-02-2010
                        1611968.17
                                                0
                                                         39.93
2
2.514
                        1409727.59
                                                0
3
       1 26-02-2010
                                                         46.63
2.561
       1 05-03-2010
                        1554806.68
                                                0
                                                         46.50
4
2.625
          CPI
               Unemployment
   211.096358
                      8.106
1
  211.242170
                      8.106
2
  211.289143
                      8.106
3
                      8.106
  211.319643
  211.350143
                      8.106
data.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 6435 entries, 0 to 6434
Data columns (total 8 columns):
#
     Column
                   Non-Null Count
                                    Dtype
- - -
     ----
 0
     Store
                   6435 non-null
                                    int64
 1
     Date
                   6435 non-null
                                    object
     Weekly_Sales
 2
                   6435 non-null
                                    float64
 3
     Holiday Flag
                   6435 non-null
                                    int64
 4
     Temperature
                   6435 non-null
                                    float64
 5
     Fuel Price
                   6435 non-null
                                    float64
 6
                                    float64
     CPI
                   6435 non-null
 7
     Unemployment 6435 non-null
                                    float64
dtypes: float64(5), int64(2), object(1)
memory usage: 402.3+ KB
data['Date']=pd.to datetime(data['Date'])
data.Date
0
       2010-05-02
1
       2010-12-02
```

```
2010-02-19
2
3
       2010-02-26
4
       2010-05-03
6430
       2012-09-28
6431
       2012-05-10
6432
       2012-12-10
6433
       2012 - 10 - 19
6434
       2012-10-26
Name: Date, Length: 6435, dtype: datetime64[ns]
data.describe()
                     Weekly Sales
                                    Holiday Flag
             Store
                                                   Temperature
Fuel Price
count 6435.000000
                     6.435000e+03
                                     6435.000000
                                                   6435.000000
6435.000000
mean
         23.000000
                     1.046965e+06
                                        0.069930
                                                     60.663782
3.358607
         12.988182
                     5.643666e+05
                                        0.255049
                                                     18.444933
std
0.459020
min
          1.000000
                     2.099862e+05
                                        0.000000
                                                     -2.060000
2.472000
25%
         12.000000
                     5.533501e+05
                                        0.000000
                                                     47.460000
2.933000
50%
         23.000000
                     9.607460e+05
                                        0.000000
                                                     62.670000
3.445000
75%
         34.000000
                     1.420159e+06
                                        0.000000
                                                     74.940000
3.735000
max
         45.000000
                     3.818686e+06
                                        1.000000
                                                    100.140000
4.468000
                CPI
                     Unemployment
                      6435.000000
count
       6435.000000
mean
        171.578394
                         7.999151
         39.356712
                         1.875885
std
min
        126.064000
                         3.879000
25%
        131.735000
                         6.891000
50%
        182.616521
                         7.874000
75%
        212.743293
                         8.622000
        227.232807
                        14.313000
max
data.isna().sum()
Store
                 0
Date
                 0
Weekly_Sales
                 0
Holiday_Flag
                 0
Temperature
                 0
                 0
Fuel Price
CPI
                 0
```

```
Unemployment
                 0
dtype: int64
df=data.groupby('Store')
['Weekly Sales'].sum().round().sort values(ascending=False)
df.head(\overline{1})
Store
20
      301397792.0
Name: Weekly Sales, dtype: float64
store 20 has got maximum sales
dfs=data.groupby('Store')
['Weekly_Sales'].std().round().sort_values(ascending=False)
dfs.head(1)
Store
14
      317570.0
Name: Weekly_Sales, dtype: float64
Store 14 has got maximum standard deviation
dfg=pd.DataFrame(dfs)
dfg
       Weekly_Sales
Store
14
            317570.0
10
            302262.0
20
            275901.0
4
            266201.0
13
            265507.0
23
            249788.0
27
            239930.0
2
            237684.0
39
            217466.0
            212526.0
6
35
            211243.0
19
            191723.0
41
            187907.0
28
            181759.0
18
            176642.0
24
            167746.0
11
            165834.0
22
            161251.0
1
            155981.0
12
            139167.0
32
            138017.0
45
            130169.0
21
            128753.0
31
            125856.0
```

```
15
           120539.0
40
           119002.0
25
           112977.0
7
           112585.0
17
           112163.0
26
           110431.0
8
           106281.0
34
           104630.0
29
            99120.0
16
            85770.0
9
            69029.0
36
            60725.0
42
            50263.0
3
            46320.0
38
            42768.0
43
            40598.0
5
            37738.0
44
            24763.0
33
            24133.0
30
            22810.0
37
            21837.0
dfr=dfg.Weekly Sales
mean_to_std=dfr.std()/dfr.mean()*100
mean_to_std
57.31319188682552
quaterly_2=data[(data['Date']>='2012-04-01')&(data['Date']<='2012-06-
01')].groupby('Store')['Weekly_Sales'].sum().round()
quaterly 2
Store
1
      12668560.0
2
      15182877.0
3
       3363691.0
4
      17129626.0
5
       2700979.0
6
      12103096.0
7
       4127903.0
8
       7256587.0
9
       4503094.0
10
      14354671.0
11
      10751056.0
12
       8105634.0
13
      16062365.0
14
      15031820.0
15
       4582054.0
16
       3759754.0
```

```
17
       7957484.0
18
       8240853.0
19
      10838154.0
20
      16345164.0
21
       5592049.0
22
       7806239.0
23
      10615957.0
24
      10370334.0
25
       5508371.0
26
       7784268.0
27
      13178462.0
28
      10386079.0
29
       4131687.0
30
       3594000.0
31
      11120655.0
32
       9320624.0
33
       2166087.0
34
       7833539.0
35
       6255679.0
36
       2521686.0
37
       4274515.0
38
       3521214.0
39
      12155310.0
40
       7534514.0
41
      10516909.0
42
       4683489.0
43
       5094492.0
44
       2631045.0
45
       6118624.0
Name: Weekly_Sales, dtype: float64
q3=data[(data['Date']>='2012-07-01')&(data['Date']<='2012-09-
30')].groupby('Store')['Weekly Sales'].sum()
q3
print("Store {} has {} as maximum sales in
q32012".format(q3.idxmax(),q3.max()))
Store 4 has 25652119.35 as maximum sales in q32012
q sales=pd.DataFrame({'Q2':quaterly 2,'Q3':q3,'Diff':q3-
quaterly 2, 'Growth':(q3-quaterly 2)/
(q3*100)}).sort values(by=['Growth'],ascending=False).head()
q sales
               Q2
                             Q3
                                       Diff
                                                Growth
Store
7
        4127903.0
                    7322393.92
                                 3194490.92
                                              0.004363
16
        3759754.0
                    6441311.11
                                 2681557.11
                                              0.004163
35
        6255679.0
                    10252122.68
                                 3996443.68
                                              0.003898
```

```
23
                                 6487697.36
       10615957.0
                   17103654.36
                                             0.003793
26
        7784268.0
                   12417575.35
                                 4633307.35 0.003731
import matplotlib.pyplot as plt
plt.hist(q sales.Growth,bins=5)
(array([2., 1., 0., 1., 1.]),
 array([0.00373125, 0.00385753, 0.0039838, 0.00411008, 0.00423636,
        0.00436263]),
 <BarContainer object of 5 artists>)
  2.00
  1.75
  1.50
  1.25
  1.00
  0.75
  0.50
  0.25
```

```
\label{local_holiday_sales} $$ holiday_sales=data[data.Holiday_Flag==1] $$ nonholiday_sales=data[data.Holiday_Flag==0] $$ holiday_sales $$ type(holiday_sales) $$
```

0.0039

0.0040

pandas.core.frame.DataFrame

0.0037 0.0038

0.00

```
SB=['12-02-2010','11-02-2011','10-02-2012','08-02-2013']
store_holiday_sales_superbowl=holiday_sales.loc[holiday_sales.Date.isi
n(SB)]['Weekly_Sales'].sum()
print("Sales during superbowl",store_holiday_sales_superbowl)
LBD=['10-09-2010','09-09-2011','07-09-2012','06-09-2013']
store_holiday_sales_labourday=holiday_sales.loc[holiday_sales.Date.isi
n(LBD)]['Weekly_Sales'].sum()
print("Sales during labour day ",store_holiday_sales_labourday)
TD=['26-11-2010','25-11-2011','23-11-2012','29-11-2013']
store_holiday_sales_thanksgiving=holiday_sales.loc[holiday_sales.Date.isin(TD)]['Weekly_Sales'].sum()
print("Sales during thanksgiving",store_holiday_sales_thanksgiving)
CS=['31-12-2010','30-12-2011','28-12-2012','27-11-2013']
```

0.0041

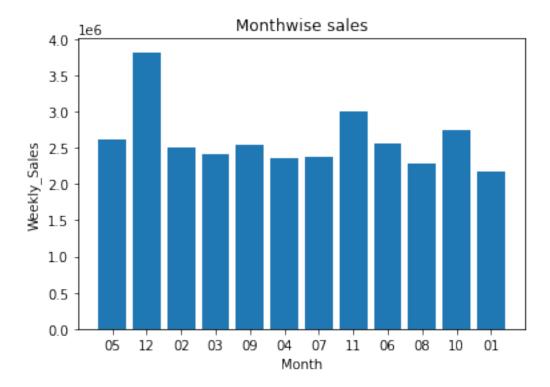
0.0042

0.0043

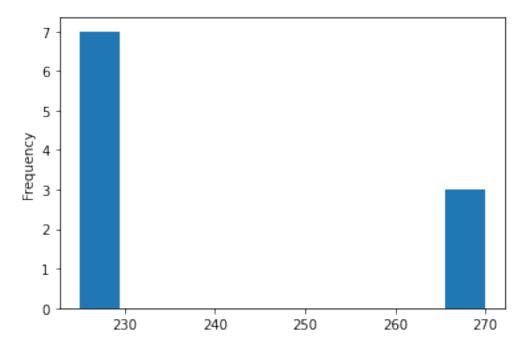
```
store_holiday_sales_christmas=holiday_sales.loc[holiday_sales.Date.isi
n(CS)]['Weekly Sales'].sum()
print("Sales during christmas", store_holiday_sales_christmas)
Sales during superbowl 145682278.34
Sales during labour day 140727684.68
Sales during thanksgiving 132414608.5
Sales during christmas 86474980.03999999
nonholiday sales mean=nonholiday sales.groupby(['Date']).agg({'Weekly
Sales':'mean'}).round(2)
nonholiday_sales_mean
            Weekly Sales
Date
2010-01-10
               938663.91
2010-02-04
              1120529.58
2010-02-07
              1087055.21
2010-02-19
              1072822.08
2010-02-26
               977079.36
              1053410.02
2012-10-08
2012-10-19
              1002720.23
2012-10-26
              1012091.47
2012-11-05
              1042797.31
2012-12-10
              1025078.09
[133 rows x 1 columns]
holiday_sales_sum=holiday_sales.groupby(['Date']).agg({'Weekly_Sales':
'sum'}).round(2)
holiday sales sum
            Weekly Sales
Date
2010-10-09
             45634397.84
2010-11-26
             65821003.24
2010-12-02
             48336677.63
2010-12-31
             40432519.00
2011-09-09
             46763227.53
2011-11-02
             47336192.79
2011-11-25
             66593605.26
2011-12-30
             46042461.04
2012-07-09
             48330059.31
2012-10-02
             50009407.92
import seaborn as sns
for x in holiday sales sum.itertuples():
    for y in nonholiday sales mean.itertuples():
        if x.Weekly Sales > y.Weekly Sales:
```

```
2010-10-09 00:00:00 Holiday Sales is greater than Non Holiday Sales
and the Sales :- 45634397.84
2010-11-26 00:00:00 Holiday Sales is greater than Non Holiday Sales
and the Sales :- 65821003.24
2010-12-02 00:00:00 Holiday Sales is greater than Non Holiday Sales
and the Sales :- 48336677.63
2010-12-31 00:00:00 Holiday Sales is greater than Non Holiday Sales
and the Sales :- 40432519.0
2011-09-09 00:00:00 Holiday Sales is greater than Non Holiday Sales
and the Sales :- 46763227.53
2011-11-02 00:00:00 Holiday Sales is greater than Non Holiday Sales
and the Sales :- 47336192.79
2011-11-25 00:00:00 Holiday Sales is greater than Non Holiday Sales
and the Sales :- 66593605.26
2011-12-30 00:00:00 Holiday Sales is greater than Non Holiday Sales
and the Sales :- 46042461.04
2012-07-09 00:00:00 Holiday Sales is greater than Non Holiday Sales
and the Sales :- 48330059.31
2012-10-02 00:00:00 Holiday Sales is greater than Non Holiday Sales
and the Sales :- 50009407.92
data['Months']=data['Date'].apply(lambda x:x.strftime('%m'))
data['Day']=data['Date'].apply(lambda x:x.strftime('%d'))
data['Year']=data['Date'].apply(lambda x:x.strftime('%y'))
plt.bar(data['Months'],data['Weekly Sales'])
plt.xlabel('Month')
plt.ylabel('Weekly Sales')
plt.title('Monthwise sales')
```

Text(0.5, 1.0, 'Monthwise sales')



data['Day'].value\_counts()[:10].plot(kind='hist')
<AxesSubplot:ylabel='Frequency'>



$$\label{local_data} \begin{split} & \texttt{data.index=pd.RangeIndex(start=1,stop=6436,step=1)} \\ & \texttt{data} \end{split}$$

	Fuel F	Store	,	Date	Weekly_	_Sales	Holi	iday_F	lag	Temperature
	Fuel_F		2010	- 05 - 02	16436	90.90			0	42.31
	2.572 2	1	2010	-12-02	16419	957.44			1	38.51
	2.548 3	1	2010	-02-19	16119	968.17			0	39.93
	2.514 4	1	2010	- 02 - 26	14097	727.59			0	46.63
	2.561 5			- 05 - 03		306.68			0	46.50
	2.625		2010	05 05	133 10	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
						• • •				• • • •
	6431 3.997	45	2012	-09-28	7131	L73.95			0	64.88
	6432	45	2012	- 05 - 10	7334	155.07			0	64.89
	3.985 6433	45	2012	- 12 - 10	7344	164.36			0	54.47
	4.000 6434	45	2012	- 10 - 19	7181	125.53			0	56.47
	3.969 6435 3.882	45	2012	-10-26	7602	281.43			0	58.85
	1 2 3 4 5	211.09 211.24 211.28 211.33 211.35	42170 89143 19643	Unemp	8.106 8.106 8.106 8.106 8.106	Months 05 12 02 02 05	Day 02 02 19 26 03	Year 10 10 10 10		
	6431 6432 6433 6434 6435	192.03 192.13 192.33 192.30	70412 27265 30854		8.684 8.667 8.667 8.667 8.667	09 05 12 10 10	28 10 10 19 26	12 12 12 12 12 12		
				_	_					

[6435 rows x 11 columns]

data\_part=data[data['Store']==1]
data\_part

Sto			Weekly_Sales	Holiday_Flag	Temperature
Fuel_Pri					
1	1	2010-05-02	1643690.90	Θ	42.31
2.572	1	2010-12-02	1641957.44	1	38.51
2.548		2010-12-02	1041957.44	1	30.31
3	1	2010-02-19	1611968.17	0	39.93

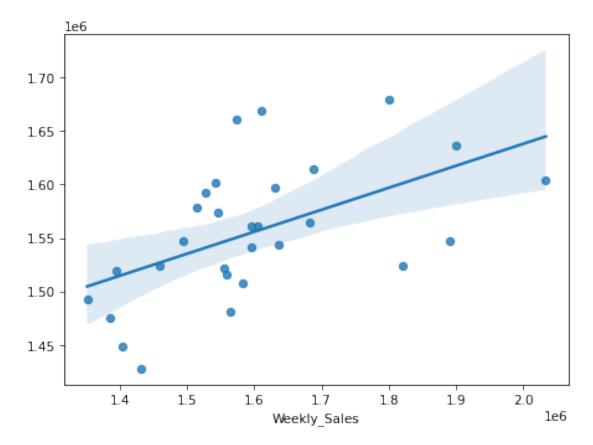
```
2.514
         1 2010-02-26
                          1409727.59
4
                                                  0
                                                            46.63
2.561
5
         1 2010-05-03
                          1554806.68
                                                  0
                                                            46.50
2.625
. .
                                                              . . .
                                                 . . .
. . .
139
         1 2012-09-28
                          1437059.26
                                                  0
                                                            76.08
3.666
140
         1 2012-05-10
                          1670785.97
                                                  0
                                                            68.55
3.617
141
         1 2012-12-10
                          1573072.81
                                                  0
                                                            62.99
3.601
         1 2012-10-19
                          1508068.77
142
                                                  0
                                                            67.97
3.594
143
         1 2012-10-26
                          1493659.74
                                                  0
                                                            69.16
3.506
                  Unemployment Months Day Year
            CPI
1
     211.096358
                         8.106
                                    05
                                        02
                                             10
2
     211.242170
                         8.106
                                    12
                                        02
                                             10
3
     211.289143
                         8.106
                                    02
                                        19
                                             10
     211.319643
4
                         8.106
                                    02
                                        26
                                             10
5
     211.350143
                                   05
                                        03
                         8.106
                                             10
                                   . . .
                                        . .
139
     222.981658
                         6.908
                                   09
                                        28
                                             12
     223.181477
140
                         6.573
                                   05
                                        10
                                             12
     223.381296
                         6.573
                                    12
                                        10
                                             12
141
     223,425723
                         6.573
                                        19
                                             12
142
                                    10
143
    223.444251
                                        26
                                             12
                         6.573
                                    10
[143 rows x 11 columns]
x=data part[['Store','CPI','Unemployment','Day','Months','Year']]
X=data_part[['Store','CPI','Unemployment','Day','Months','Year','Weekl
v Sales'll
#df=[{'Store':1, 'CPI':223, 'Unemployment':11, 'Fuel Price':5.9}]
#x=x.append(df)
y=data part['Weekly Sales']
Y=data part['Holiday_Flag']
y.head()
#df1=[{'Store':1,'Weekly Sales':1645232.22}]
#y=y.append(df1)
     1643690.90
1
2
     1641957.44
3
     1611968.17
4
     1409727.59
```

```
1554806.68
Name: Weekly Sales, dtype: float64
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)
x train.shape, y train.shape
((114, 6), (114,))
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)
X train.shape, Y train.shape
((114, 7), (114,))
from sklearn.linear model import LinearRegression
sc=LinearRegression()
sc.fit(x train,y train)
LinearRegression()
pred=sc.predict(x test)
pred
array([1546705.26697127, 1668701.10445977, 1427615.35339617,
       1544165.42012317, 1573357.04891571, 1448555.32543149,
       1614051.26165692, 1508366.12307374, 1597358.82483007,
       1524581.07240867, 1604250.95992181, 1592103.75204
       1542018.27358506, 1679541.54227829, 1660220.80519283,
       1492464.04431375, 1578317.30111606, 1522253.37302981,
       1561329.46036225, 1475838.39073492, 1481734.07886227,
       1519437.07162968, 1546751.22489451, 1561662.41567057,
       1516005.85203333, 1602014.86331816, 1636576.55945427,
       1523529.56150459, 1564696.921709031)
print("Train Accuracy",sc.score(x train,y train)*100)
Train Accuracy 20.693668397188148
from sklearn.metrics import mean absolute error, mean squared error
print('Mean Absolute Error:', mean absolute error(y test,
pred).round(3))
print('Mean Squared Error:', mean squared error(y test,
pred).round(3))
print('Root Mean Squared Error:', np.sqrt(mean squared error(y test,
pred)).round(3))
plt.figure(figsize=(7,5), dpi=75)
sns.regplot(y test, pred)
```

Mean Absolute Error: 104088.849 Mean Squared Error: 20706744113.811 Root Mean Squared Error: 143898.381

C:\Users\MONIKA\AppData\Roaming\Python\Python38\site-packages\seaborn\
 \_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
 warnings.warn(

<AxesSubplot:xlabel='Weekly\_Sales'>



from sklearn.ensemble import RandomForestRegressor
r1 = RandomForestRegressor()
r1.fit(x\_train,y\_train)

RandomForestRegressor()

```
from sklearn.metrics import
r2_score,mean_absolute_error,mean_squared_error
y_pred = r1.predict(x_test)
print("Accuracy:",r1.score(x_train,y_train).round(5)*100)
print("R2_Score:", r2_score(y_test, y_pred).round(5)*100)
print("Mean Absolute Error:", mean_absolute_error(y_test, y_pred))
print("Mean Squared Error:", mean_squared_error(y_test, y_pred))
```

print("Root Mean Squared Error:",np.sqrt(mean\_squared\_error(y\_test, y\_pred))) sns.regplot(y\_test,y\_pred)

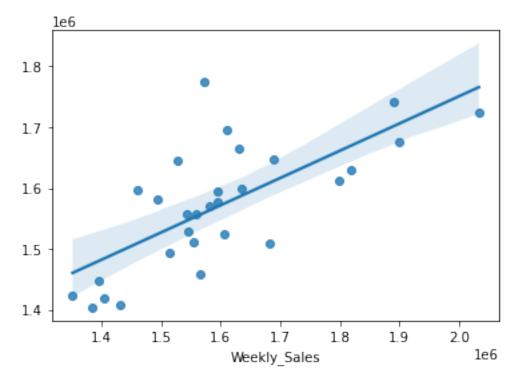
Accuracy: 87.82600000000001 R2\_Score: 46.861000000000004

Mean Absolute Error: 85356.03821724119 Mean Squared Error: 13551173909.47711

Root Mean Squared Error: 116409.50953198415

C:\Users\MONIKA\AppData\Roaming\Python\Python38\site-packages\seaborn\
 \_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
 warnings.warn(

<AxesSubplot:xlabel='Weekly\_Sales'>



data

Stor	-e	Date	Weekly_Sales	Holiday_Flag	Temperature
Fuel_Price					
1	1 2010	- 05 - 02	1643690.90	0	42.31
2.572	1 2010	12 02	1641957.44	1	38.51
2.548	1 2010	- 12 - 02	1041937.44	1	30.31
3	1 2010	- 02 - 19	1611968.17	0	39.93
2.514					

```
1 2010-02-26
                           1409727.59
                                                             46.63
                                                   0
2.561
5
          1 2010-05-03
                           1554806.68
                                                   0
                                                             46.50
2.625
. . .
. . .
         45 2012-09-28
                            713173.95
                                                             64.88
6431
                                                   0
3.997
6432
         45 2012-05-10
                            733455.07
                                                   0
                                                             64.89
3.985
6433
         45 2012-12-10
                            734464.36
                                                             54.47
4.000
6434
         45 2012-10-19
                            718125.53
                                                             56.47
3.969
6435
         45 2012-10-26
                            760281.43
                                                   0
                                                             58.85
3.882
                   Unemployment Months Day Year
             CPI
1
      211.096358
                          8.106
                                     05
                                         02
2
      211.242170
                          8.106
                                     12
                                         02
                                              10
3
      211.289143
                          8.106
                                     02
                                              10
                                         19
      211.319643
4
                          8.106
                                     02
                                         26
                                              10
5
      211.350143
                                         03
                          8.106
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                            . . .
                                    . . .
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                                              . . .
6431
      192.013558
                                     09
                                         28
                                              12
                          8.684
      192.170412
                                              12
6432
                          8.667
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                                         10
      192.327265
                                              12
6433
                          8.667
                                     12
                                         10
6434
                                     10
                                              12
     192.330854
                          8.667
                                         19
6435
      192.308899
                                              12
                          8.667
                                     10
                                         26
[6435 rows x 11 columns]
from sklearn.linear model import LogisticRegression
s1=LogisticRegression()
s1.fit(X train,Y train)
LogisticRegression()
spred=s1.predict(X test)
spred
0,
       0, 0, 0, 0, 0, 0], dtype=int64)
from sklearn.metrics import r2 score, mean absolute error
print("Accuracy:",sl.score(X_train,Y_train).round(5)*100)
print("Mean Absolute Error:", mean_absolute_error(Y_test, spred))
print("Mean Squared Error:", mean_squared_error(Y_test, spred))
```

print("Root Mean Squared Error:",np.sqrt(mean\_squared\_error(Y\_test, spred)))

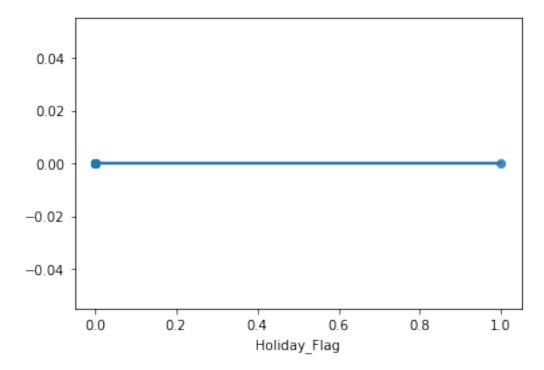
sns.regplot(Y\_test,spred)

Accuracy: 92.105

Mean Absolute Error: 0.034482758620689655 Mean Squared Error: 0.034482758620689655 Root Mean Squared Error: 0.18569533817705186

C:\Users\MONIKA\AppData\Roaming\Python\Python38\site-packages\seaborn\
 \_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
 warnings.warn(

<AxesSubplot:xlabel='Holiday\_Flag'>



data["Which day"]=pd.to\_datetime(data["Date"]).dt.day\_name()
data

St	ore Date	Weekly_Sales	Holiday_Flag	Temperature
Fuel_Pri 1	ce \ 1 2010-05-02	1643690.90	0	42.31
2.572			_	
2.548	1 2010-12-02	1641957.44	1	38.51
3	1 2010-02-19	1611968.17	0	39.93

2.514							
4	1 2010-02	2-26 1409	727.59			0	46.63
2.561	1 2010-05	5-03 1554	806.68			0	46.50
2.625	1 2010 00		1334000.00			10150	
6431	45 2012-09	9-28 713	173.95			0	64.88
3.997 6432	45 2012-05	5-10 733	455.07			0	64.89
3.985 6433	45 2012-12	2-10 734	464.36			0	54.47
4.000 6434	45 2012-10	9-19 718	125.53			0	56.47
3.969 6435	45 2012-10	9-26 760	281.43			0	58.85
3.882							
-		Jnemployment					
1 2	211.096358 211.242170	8.106 8.106		02 02	10 10	Sunday Thursday	
3	211.242170	8.106		19	10	Friday	
4	211.319643	8.106		26	10	Friday	
5	211.350143	8.106	05	03	10	Monday	
	102 012550	0.604				r Endaler	
6431 6432	192.013558 192.170412	8.684 8.667		28 10	12 12	Friday Thursday	
6433	192.170412	8.667		10	12	Monday	
6434	192.330854	8.667		19	12	Friday	
6435	192.308899	8.667	10	26	12	Friday	

[6435 rows x 12 columns]