

In [47]: In [48]:	<pre>from sklearn.linear_model import Lasso from sklearn.linear_model import Ridge from sklearn.linear_model import ElasticNet from sklearn.metrics import explained_variance_score from sklearn.metrics import mean_absolute_error</pre>
In [49]:	<pre>score = explained_variance_score(y_test, LR_prediction) mae = mean_absolute_error(LR_prediction, y_test) print("Score:", score) print("Mean Absolute Error:", mae) Linear Regression</pre>
	28.184265839041736 print(LR.coef_) [-0.06746213 -0.25284727 0.08301739 0.07893208 -0.03144021 0.01369642 0.04330166 -0.01305109 0.07763058 4.89642945 0.10477162] plt.scatter(y_test, LR_prediction) plt.xlabel("Test Truth Data") plt.ylabel("Test Predicted Data") Text(0, 0.5, 'Test Predicted Data')
Out[51]:	36 - 34 - 32 - 30 - 28 - 28 - 30 - 34 - 34 - 35 - 36 - 36 - 37 - 38 - 38 - 38 - 38 - 38 - 38 - 38
In [52]:	26 - 24 - 24 - 26 28 30 32 34 36 38 40 Test Truth Data
Out[52]:	<pre><axessubplot:xlabel='temperature'></axessubplot:xlabel='temperature'></pre>
	28 - 24 - 26 - 28 - 30 - 32 - 34 - 36 - 38 - 40 - Temperature
In [53]: In [54]:	<pre>from sklearn.metrics import r2_score R2_score=R2_score=r2_score(y_test, LR_prediction) print(R2_score) 0.5181357540889069 ## Adjusted R square #display adjusted R-squared 1 - (1-R2_score)*(len(y_test)-1)/(len(y_test)-X_test.shape[1]-1)</pre>
Out[54]: In [55]:	0.44131681633496456
In [56]:	R2_score_lasso=r2_score(y_test,prediction_lasso)
In [57]: In [58]:	<pre>print (R2_score_lasso) 0.5420886960810642 print (lasso.intercept_) 31.386610759759506 print (lasso.coef_) [-0.08738572 -0.06992637 -0.</pre>
In [59]: Out[59]:	0. 0. 0. 0.]
	34 - Fed Day 32 - See To See T
In [60]: Out[60]:	26 24 26 28 30 32 34 36 38 40 Sns.regplot(y_test,prediction_lasso) <axessubplot:xlabel='temperature'></axessubplot:xlabel='temperature'>
	36 - 34 - 32 - 30 -
In [61]:	#display adjusted R-squared
Out[61]: In [62]:	<pre>ridge = Ridge() ridge.fit(X_train, y_train) prediction_ridge = ridge.predict(X_test) score = explained_variance_score(y_test, prediction_ridge)</pre>
Tn [62].	<pre>mae = mean_absolute_error(prediction_ridge, y_test) print("Score:", score) print("Mean Absolute Error:", mae) </pre>
In [63]: In [64]: In [65]:	R2_score_ridge=r2_score(y_test,prediction_ridge) print(R2_score_ridge) 0.5338298995162152 print(ridge.intercept_) 30.827339285335093
In [66]: Dut[66]:	[-0.06986275 -0.24000484 0.02620679 0.08070387 -0.04336237 0.01113543 0.02869216 0.00527613 0.07690343 2.12469152 0.12606661]
In [67]:	<pre>print("</pre>
In [68]:	Ridge Regression
In [69]: In [70]:	<pre>print(elasticnet.coef_) [-0.08152874 -0.13661156 -0.</pre>
Dut[71]:	<pre>## Adjusted R square #display adjusted R-squared 1 - (1-R2_score_elasticnet)*(len(y_test)-1)/(len(y_test)-X_test.shape[1]-1) 0.47688706389400237 from sklearn.preprocessing import StandardScaler scaler = StandardScaler()</pre>
[74]:	<pre>X_train_scaled = scaler.fit_transform(X_train) X_test_scaled = scaler.transform(X_test) X_train_scaled array([[-1.21894177, 0.15920239, -0.38206865,, 2.28258606,</pre>
\1:	0.07881104, 1.01242284], [-0.95459295, 0.92907663, 3.02813084,, -0.60799249, 0.07881104, 1.01242284], [-0.02937209, 0.92907663, -0.21155867,, -0.44665787, 0.07881104, -0.9877296],, [1.82106964, -0.99560898, 0.01578796,, -1.01132903, 0.07881104, -0.9877296], [0.63149995, -0.61067185, 3.31231413,, -0.95755083, 0.07881104, 1.01242284], [0.76367436, 0.54413951, 0.12946128,, -0.95755083,
[n [76]: Dut[76]:	[0.76367436, 0.54413951, 0.12946128,, -0.95755083, 0.07881104, -0.9877296]]) X_test_scaled
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	-7.60329386e-01, -9.23424778e-01, -7.36861103e-01, -9.02061500e-01, -8.82458950e-01, -9.44106274e-01, 7.88110406e-02, 1.01242284e+00], [-2.27633704e-01, 1.59202390e-01, -3.82068646e-01, 6.68404664e-01, 1.07383576e+00, 2.45312243e-01, 5.15135915e-01, 7.73038502e-01, 7.36462647e-01, 7.88110406e-02, 1.01242284e+00], [-2.27633704e-01, 1.31401376e+00, -3.82068646e-01, 7.02749233e-01, 1.22363030e+00, 2.00705816e+00, 9.56558061e-01, 1.57548487e+00, 1.46246842e+00,
	7.88110406e-02, -9.87729597e-01], [5.65412750e-01, -6.10671854e-01, -3.82068646e-01, 3.04352238e-01, -4.57397320e-01, -3.49277002e-01, -4.37406610e-01, -4.27016419e-01, -5.27325182e-01, 7.88110406e-02, -9.87729597e-01], [-2.93720909e-01, 1.59202390e-01, -3.82068646e-01, 6.27191182e-01, 6.68835704e-02, -2.72200619e-01, 3.75739448e-01, -9.44710795e-02, 1.98680593e-01, 7.88110406e-02, 1.01242284e+00],
	[4.99325545e-01, -9.95608976e-01, -3.82068646e-01, 4.55468339e-01, -5.57260347e-01, -6.64189084e-01, -2.51544654e-01, -6.36664568e-01, -4.86991527e-01, 7.88110406e-02, -9.87729597e-01], [1.68889523e+00, 9.29076634e-01, -3.82068646e-01, 1.12022654e-01, -2.57671267e-01, -4.77003581e-01, -5.30337588e-01, -3.76411694e-01, -5.81103387e-01, 7.88110406e-02, 1.01242284e+00], [-8.88505750e-01, 9.29076634e-01, -3.82068646e-01, 8.05782938e-01, 3.27082235e+00, 3.75338879e+00,
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	[-6.24156932e-01, -6.10671854e-01, -3.82068646e-01, -4.74887861e-03, -8.73493265e-01, -8.68992047e-01, -7.16199544e-01, -9.11375936e-01, -9.03772620e-01, 7.88110406e-02, 1.01242284e+00], [-1.35111618e+00, -2.15042034e+00, -3.25231988e-01, 9.36292298e-01, 6.41095974e-01, 3.33399539e-01, 1.02625629e+00, 5.20014874e-01, 9.78464572e-01, 7.88110406e-02, 1.01242284e+00], [1.22628480e+00, 1.59202390e-01, 6.40991199e-01, -2.12724321e+00, -9.98322048e-01, -9.30653154e-01,
	-2.12724321e+00, -9.98322048e-01, -9.30633134e-01, -1.11115620e+00, -1.01258539e+00, -9.97884480e-01, 7.88110406e-02, -9.87729597e-01], [-8.22418545e-01, -1.76548322e+00, -3.82068646e-01, 7.57700542e-01, -4.24109645e-01, -3.71298826e-01, 3.98972193e-01, -4.12557926e-01, 2.39014247e-02, 7.88110406e-02, -9.87729597e-01], [-2.27633704e-01, -9.95608976e-01, -2.68395330e-01, 7.76780858e-02, 3.16541137e-01, 8.37699307e-01, -6.92966799e-01, 5.34473367e-01, -5.00436079e-01,
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	4.27992685e-01, -1.91095915e-01, -1.86315505e-01, -1.81846420e-01, -1.95680531e-01, -2.44989603e-01, 7.88110406e-02, 1.01242284e+00], [8.95848772e-01, 1.59202390e-01, -3.82068646e-01, 2.63138756e-01, -8.73493265e-01, -5.65090877e-01, -4.14173865e-01, -7.95707992e-01, -6.75215247e-01, 7.88110406e-02, 1.01242284e+00], [4.99325545e-01, -9.95608976e-01, 1.57879606e-02, -8.08411782e-01, -7.40342563e-01, -8.95418235e-01, -9.25294244e-01, -8.10166485e-01, -9.44106274e-01,
n [77]:	7.88110406e-02, -9.87729597e-01]]) print("
īn [78]:	print("Mean Absolute Error:", mae) Linear Regression with Scaled Data Score: 0.5251004604498851 Mean Absolute Error: 2.077124666699029
Out[78]:	Text(0, 0.5, 'Test Predicted Data') 36 - 34 -
	28 26 26 28 30 32 34 36 38 40 Test Truth Data
n [79]: Dut[79]:	<pre>plt.xlabel("Test Truth Data") plt.ylabel("Test Predicted Data") Text(0, 0.5, 'Test Predicted Data') 36- 34-</pre>
	32 - 28 - 26 - 24 - 24 - 24 - 24 - 24 - 24 - 24
in [80]:	24 26 28 30 32 34 36 38 40 Test Truth Data
īn [81]:	<pre>mae = mean_absolute_error(prediction_ridge, y_test) print("Score:", score) print("Mean Absolute Error:", mae) </pre>
in [81]: Out[81]:	plt.xlabel("Test Truth Data") plt.ylabel("Test Predicted Data") Text(0, 0.5, 'Test Predicted Data')
	28 - 24 - 26 28 30 32 34 36 38 40
[n [82]: [n [83]:	Test Truth Data print (ridge.coef_) [-1.0193518 -0.65208018 0.13671987 1.12530659 -0.37463562 0.55848354 0.25083123 -0.06646846 0.47865265 0.38001622 0.04529692]
In [84]:	<pre>print("ElasticNet Regression with Scaled Data elasticnet = ElasticNet() elasticnet.fit(X_train_scaled,y_train) prediction_elasticnet = elasticnet.predict(X_test_scaled) score = explained_variance_score(y_test, prediction_elasticnet) mae = mean_absolute_error(prediction_elasticnet,y_test) print("Score:", score)</pre>
in [85]:	print("Mean Absolute Error:", mae) ElasticNet Regression with Scaled Data Score: 0.46022751134240514 Mean Absolute Error: 2.1962111877558033
Out[85]:	plt.ylabel("Test Predicted Data") Text(0, 0.5, 'Test Predicted Data') 36 35
	34 33 32 34 36 38 40 Test Truth Data
In [86]: In [87]:	<pre>print (elasticnet.coef_) [-0.61517078 -0.14551371 -0.</pre>
In [88]:	<pre>print("</pre>
[n [89]:]u+[89]:	Lasso Regression with Scaled Data
Out[89]:	35 - 34 - teg 33 - 32 -
In [90]:	30 - 29 - 24 26 28 30 32 34 36 38 40 Test Truth Data
In [90]: In [91]: In []:	[-0.66167174 -0.
in []:	