In [1]:	<pre>##importing csv file import pandas as pd df1=pd.read_csv('C:/Users/USER/Downloads/samplefile.csv') print(df1.head)</pre>
	<pre><bound method="" ndframe.head="" of<="" td=""></bound></pre>
	3 -3.865 21.885 6.608 -2.41 20.09 -1.78 78.48 102.76 16 0 4 2.681 28.431 6.404 -7.23 15.27 -2.76 77.50 102.76 16 0
	395 -2.398 23.352 2.790 -0.80 21.70 -3.24 77.02 102.76 36 1 396 3.733 29.483 2.790 -7.23 15.27 -2.76 77.50 102.76 36 1 397 -0.986 24.764 2.785 0.81 23.31 11.49 91.75 102.76 36 1 398 -6.194 19.556 2.782 -0.80 21.70 -3.24 77.02 102.76 36 1
In [2]:	[399 rows x 10 columns]> df1.head
Out[2]:	<pre><bound method="" ndframe.head="" of<="" th=""></bound></pre>
	4 2.681 28.431 6.404 -7.23 15.27 -2.76 77.50 102.76 16 0
	396 3.733 29.483 2.790 -7.23 15.27 -2.76 77.50 102.76 36 1 397 -0.986 24.764 2.785 0.81 23.31 11.49 91.75 102.76 36 1 398 -6.194 19.556 2.782 -0.80 21.70 -3.24 77.02 102.76 36 1 [399 rows x 10 columns]>
In [3]:	<pre>from sklearn.model_selection import train_test_split from sklearn import metrics from sklearn.linear_model import LinearRegression</pre>
In [4]:	df1.dropna
Out[4]:	<pre><bound dataframe.dropna="" method="" of<="" th=""></bound></pre>
	4 2.681 28.431 6.404 -7.23 15.27 -2.76 77.50 102.76 16 0
	397 -0.986 24.764 2.785 0.81 23.31 11.49 91.75 102.76 36 1 398 -6.194 19.556 2.782 -0.80 21.70 -3.24 77.02 102.76 36 1 [399 rows x 10 columns]>
In [5]:	<pre>#printing value of x X=df1[['c1','c2','c3','c4','c5','c6','c7','c8','c9']] print(X)</pre>
	C1 C2 C3 C4 C5 C6 C7 C8 C9 0 -2.415 23.335 6.792 -7.23 15.27 -2.76 77.50 102.76 15 1 2.947 28.697 6.621 -7.23 15.27 -2.76 77.50 102.76 16 2 -4.936 20.814 6.616 0.81 23.31 11.49 91.75 102.76 16
	3 -3.865 21.885 6.608 -2.41 20.09 -1.78 78.48 102.76 16 4 2.681 28.431 6.404 -7.23 15.27 -2.76 77.50 102.76 16
	396 3.733 29.483 2.790 -7.23 15.27 -2.76 77.50 102.76 36 397 -0.986 24.764 2.785 0.81 23.31 11.49 91.75 102.76 36 398 -6.194 19.556 2.782 -0.80 21.70 -3.24 77.02 102.76 36 [399 rows x 9 columns]
In [6]:	<pre>#printing value of y Y=df1['c10'] print(Y)</pre>
	0 0 1 0 2 0 3 0
	4 0 394 1 395 1
	396 1 397 1 398 1 Name: c10, Length: 399, dtype: int64
In [7]:	<pre>#train test split formula X_train, X_test, Y_train, Y_test=train_test_split(X, Y, test_size=0.2)</pre>
z [0].	print(X_train) c1 c2 c3 c4 c5 c6 c7 c8 c9 23 -2.679 23.071 5.366 -7.23 15.27 -2.76 77.50 102.76 20 254 -4.446 21.304 3.134 0.81 23.31 11.49 91.75 102.76 32
	150 -3.220 22.530 3.508 -7.23 15.27 -2.76 77.50 102.76 30 276 -3.979 21.771 3.069 -0.80 21.70 -3.24 77.02 102.76 34 294 1.475 27.225 3.024 -0.80 21.70 -3.24 77.02 102.76 34
	158 0.699 26.449 3.471 0.81 23.31 11.49 91.75 102.76 30 25 -4.552 21.198 5.162 4.02 26.52 -1.45 78.81 102.76 20 20 0.483 26.233 5.396 -7.23 15.27 -2.76 77.50 102.76 20 349 -4.080 21.670 2.890 -0.80 21.70 -3.24 77.02 102.76 36
In [9]:	<pre>[319 rows x 9 columns] #testX print(X_test)</pre>
	c1 c2 c3 c4 c5 c6 c7 c8 c9 362 -2.224 23.526 2.863 -7.23 15.27 -2.76 77.50 102.76 36 267 -6.842 18.908 3.100 -0.80 21.70 -3.24 77.02 102.76 34 63 6.125 31.875 4.335 -7.23 15.27 -2.76 77.50 102.76 24
	54 -6.871 18.879 4.434 -0.80 21.70 -3.24 77.02 102.76 24 298 7.686 33.436 3.006 4.02 26.52 -1.45 78.81 102.76 34
	162 -1.711 24.039 3.456 0.81 23.31 11.49 91.75 102.76 30 246 5.594 31.344 3.155 -7.23 15.27 -2.76 77.50 102.76 32 44 1.715 27.465 4.686 -7.23 15.27 -2.76 77.50 102.76 22 [80 rows x 9 columns]
In [10]:	<pre>#test Y print(Y_train)</pre>
	23 0 254 0 150 0 276 0 294 0
	315 0 158 0 25 0 20 0
In [34]:	349 1 Name: c10, Length: 319, dtype: int64 #print Y
	<pre>print(Y_test) 324 0 155 0 19 0</pre>
	49 0 297 0 61 0
	62
In []:	<pre>print('Linear Regression:') print() reg = LinearRegression() reg.fit(X_train, Y_train)</pre>
In []:	<pre>Y_pred = reg.predict(X_test)</pre> <pre>print(Y_pred)</pre>
In []:	<pre>import numpy as np</pre>
In []:	<pre>print('Accuracy:',reg.score(X_train, Y_train)*100) print('Mean Absolute Error:', metrics.mean_absolute_error(Y_test, Y_pred)) print('Mean Squared Error:', metrics.mean_squared_error(Y_test, Y_pred)) print('Root Mean Squared Error:', np.sqrt(metrics.mean_squared_error(Y_test, Y_pred))) #sns.scatterplot(Y_pred, Y_test)</pre>
In [40]:	<pre>from sklearn.ensemble import RandomForestRegressor print('Random Forest Regressor:')</pre>
	<pre>print() rfr = RandomForestRegressor() rfr.fit(X_train, Y_train) Y_pred = rfr.predict(X_test) print('Accuracy:',rfr.score(X_test, Y_test)*100)</pre>
	<pre>print('Mean Absolute Error:', metrics.mean_absolute_error(Y_test, Y_pred)) print('Mean Squared Error:', metrics.mean_squared_error(Y_test, Y_pred)) print('Root Mean Squared Error:', np.sqrt(metrics.mean_squared_error(Y_test, Y_pred))) Random Forest Regressor:</pre>
	Accuracy: 98.71799687010954 Mean Absolute Error: 0.0039999999999999999999999999999999999
In []:	#global green house gas emmision - 78% #India's green house gas emission -7% #Total emmission rate - 5.46%
In []:	#Bikanar - highest heat emmited #Amritser and batla - lowest emmiting cities print(Y_test,Y_pred)
In [12]:	#TITTLE OF THE PROJECT : GLOBAL WARMING ANALAYSIS OF INDIA:An earth hour survey
In []:	

In [1]: