In [2]:	<pre>import numpy as np import pandas as pd</pre>
Out[2]:	train.head()  ID
	1 6 88.53 k t av e d y l o 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
In [3]:	test.head()
Out[3]:	ID       X0       X1       X2       X3       X4       X5       X6       X8       X10        X375       X376       X377       X378       X379       X380       X382       X383       X384       X385         0       1       az       v       n       f       d       t       a       w       0        0
In [4]:	4 5 w s as c d y i m 0 1 0 0 0 0 0 0 0 0 0 0 5 rows × 377 columns
Out[4]:	<pre>df_train = train.drop(["y","ID"],axis=1) df_train.head(5)</pre>
	1       k       t       av       e       d       y       l       o
In [5]:	from sklearn.feature_selection import VarianceThreshold
	<pre>variance = VarianceThreshold(threshold=0) from sklearn.preprocessing import LabelEncoder label = LabelEncoder import matplotlib.pyplot as plt %matplotlib inline</pre>
In [6]: Out[6]:	train_without_zero_var = variance.fit_transform(df_train.iloc[:,9:]) train_without_zero_var  array([[0, 1, 0,, 0, 0, 0],
In [7]:	[1, 1, 0,, 0, 0, 0], [0, 0, 1,, 0, 0, 0], [0, 0, 0,, 0, 0, 0]], dtype=int64)  labeled = df_train.iloc[:,0:8] labeled.head()
Out[7]:	X0       X1       X2       X3       X4       X5       X6       X8         0       k       v       at       a       d       u       j       o         1       k       t       av       e       d       y       l       o         2       az       w       n       c       d       x       j       x
In [8]:	3 az t n f d x l e 4 az v n f d h d n
Out[8]:	labeled_data.head()
	2       20       24       34       2       3       27       9       23         3       20       21       34       5       3       27       11       4         4       20       23       34       5       3       12       3       13
In [9]: Out[9]:	<pre>train_zero_var = pd.DataFrame(train_without_zero_var) train_zero_var.head()  0 1 2 3 4 5 6 7 8 9 345 346 347 348 349 350 351 352 353 354  0 0 1 0 0 0 0 1 0 0 1 0 0 1 0 0 0 0</pre>
	1       0
In [10]:	<pre>train_data = pd.concat([labeled_data, train_zero_var], axis=1) train_data.head()</pre>
Out[10]:	0       32       23       17       0       3       24       9       14       0       1       0
	3 20 21 34 5 3 27 11 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
In [11]: Out[11]:	test.head()  X0 X1 X2 X3 X4 X5 X6 X8 X10 X11 X375 X376 X377 X378 X379 X380 X382 X383 X384 X385  0 az v n f d t a w 0 0 0 0 0 1 0 0 0 0 0
	1       t       b       ai       a       d       b       g       y       0       0        0       0       1       0
In [12]:	test_without_zero_var  test_without_zero_var
Out[12]:	array([[0, 0, 0,, 0, 0, 0],
<pre>In [13]: Out[13]:</pre>	test_data.head()
	1       0
In [14]:	<pre>labeled = test.iloc[:,0:8] labeled.head()</pre>
Out[14]:	X0         X1         X2         X3         X4         X5         X6         X8           0         az         v         n         f         d         t         a         w           1         t         b         ai         a         d         b         g         y           2         az         v         as         f         d         a         j         j
In [15]:	tabeted_data = tabeted approver (first est answers)
Out[15]:	labeled_data.head()  X0 X1 X2 X3 X4 X5 X6 X8  0 21 23 34 5 3 26 0 22  1 42 3 8 0 3 9 6 24
In [16]:	2 21 23 17 5 3 0 9 9  3 21 13 34 5 3 31 11 13  4 45 20 17 2 3 30 8 12
Out[16]:	test_data1.head(5)
	2 21 23 17 5 3 0 9 9 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0
In [17]: In [18]:	<pre>from sklearn.model_selection import train_test_split</pre>
In [19]: Out[19]:	x_train.shape,x_test.shape,y_train.shape,y_test.shape
In [20]:	pca = PCA(n_components=2)
In [22]:	
In [23]:	Agbi = Adbitegressor (Fundom_state=42)
In [25]:	<pre>model =xgbr.fit(x_train,y_train)</pre>
In [25]: Out[25]: In [26]:	<pre>model =xgbr.fit(x_train,y_train)  ypred_test = model.predict(x_test) ypred_test  array([ 89.92478, 92.23022, 106.76723,, 93.1157 , 100.5901 ,</pre>
Out[25]:	<pre>model =xgbr.fit(x_train,y_train)  ypred_test = model.predict(x_test) ypred_test  array([ 89.92478,  92.23022, 106.76723,,  93.1157 , 100.5901 ,</pre>
Out[25]: In [26]: Out[26]: In [27]: In [28]:	<pre>model = xgbr.fit(x_train,y_train)  ypred_test = model.predict(x_test) ypred_test = model.predict(x_test)  array([ 89.92478, 92.23822, 106.76723,, 93.1157 , 100.5981 ,</pre>
Out[25]: In [26]: Out[26]: In [27]:	<pre>model =xgbr.fit(x_train,y_train)  ypred_test = model.predict(x_test) ypred_test = model.predict(x_test)  array([ 89.92478,  92.23822, 106.76723,,  93.1157 , 100.5981 ,</pre>
Out[25]: In [26]: Out[26]: In [27]: In [28]:	model =xgbr.Tit(x_train,y_train)  ypred_test = model.predict(x_test) ypred_test  array([ 89.9248, 92.23822, 106.76725,, 93.1157 , 180.5901 ,
Out[25]: In [26]: Out[26]: In [27]: In [28]:	<pre>model =xgbr.fit(x train,y train)  ypred_test = model.predict(x_test) ypred_test = model.predict(x_test) ypred_test = model.predict(x_test) ypred_train=model.predict(x_train) ypred_train=model.predict(x_train) ypred_train=model.predict(x_train) ypred_train=model.predict(x_train) ypred_train=model.predict(x_train) ypred_train=model.predict(x_train) ypred_train=frain,y_train) 0.8854828904318524  print(resam_squared_error(ypred_train,y_train)) 28.58797391176832  prediction = pd.DataFrame('ytest':y_test, 'ypred':ypred_test))  plt.plc(prediction['ypred'],color='red') plt.plot(prediction['ypred'],color='blue') plt.show()</pre>
Out[25]: In [26]: Out[26]: In [27]: In [33]: In [35]:	<pre>model = model.product(x_train,y_train)  yered test = model.product(x_test) yered_test  array([ 89.92476,  82.23022,  100.76724,,  92.3157 ,  180.5901 ,</pre>
Out[25]: In [26]: Out[26]: In [27]: In [33]: In [35]:	<pre>model model.fit(r_train_v_train) yored_tesi = motel.predict(r_test) yored_tesi = motel.predict(r_test) yored_tesi = motel.predict(r_test) yored_tesi = motel.predict(r_tesi) yored_tesi = motel.predict(r_tesin) yored_tesin yored_tesin yored_tesin = motel.predict(r_tesin) yored_tesin = motel.predict(r_tesin) yored_tesin yored_</pre>
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