Importing Libraries  n [3]: import pandas as pd import numpy as np import seaborn as sns import matplotlib.pyplot as plt %matplotlib inline  Read the Data
df=pd.read_csv("Classified Data", index_col=0)
Index(['WTT', 'PTI', 'EQW', 'SBI', 'LQE', 'QWG', 'FDJ', 'PJF', 'HQE', 'NXJ',
75% 1.63295 1.307904 1.028340 0.834317 1.198270 1.123060 1.134852 1.283160 1.383173 1.504832 1.00000  max 1.721779 1.833757 1.722725 1.634884 1.650050 1.666902 1.713342 1.785420 1.885690 1.893950 1.00000  {class 'pandas.core.frame.DataFrame'> Int64Index: 1.0000 entries, 0 to 999 Data columns (total 11 columns):
t[68]: 0.9496815136132967
Data Pre-Processing    From sklearn.preprocessing import StandardScaler   Scaler_StandardScaler()   Scaler_Scale
3 0.982841 1.060193 -0.621399 0.625299 0.45282 0.267220 1.750208 1.066491 1.241325 -1.026987  4 1.139275 -0.640392 -0.709819 -0.057175 0.82288 0.936773 0.596782 -1.472352 1.040772 0.276510  5 -0.399853 1.59170 0.928649 1.477102 0.308440 0.263270 1.29716 0.722608 -2.208816 0.809900  [63]:  63]:  64
sns.histplot(df['WTT'])
Semborn.exisgrid.PairErid at 8x2850d172300   Semborn.exisgrid.Pa
Training and Testing Data  [12]:
pred=knn.predict(x_test) accuracy.append(accuracy_score(y_test, pred))  Plotting the Accuracy obtained at different values of K  [67]: plt.figure(figsize=(11,8)) plt.plot(range(1,40),accuracy,linestyle='dashed',color='green', markersize=10, markerfacecolor='red',marker='o') plt.xlabel('Value of K',fontsize='x-large') plt.ylabel('Accuracy',fontsize='x-large') plt.title('Graph between value of K and Accuracy of the model',fontsize='xx-large') print("Maximum accuracy:-{} at K ={}".format(max(accuracy),accuracy.index(max(accuracy))))  Maximum accuracy:-0.95 at K = 36  Graph between value of K and Accuracy of the model  0.950-
0.945 0.930 0.925 0.910 0.910 5 10 15 20 25 30 35 40
[44]: nn.array(accuracy).reshape(39.1)  [144]: array([[0.91] ],
[46]:
[48]: print(accuracy_score(y_test,pred)) 0.9466666666666667  n []: