KNN test for k=5:

Accuracy Score = 0.439

Confusion Matrix:

R-Cross-Validation Result:

K: Accuracies for R=5

1: [0.373, 0.404, 0.3885, 0.3855, 0.401]

3 : [0.4015, 0.413, 0.4, 0.413, 0.432]

5 : [0.4275, 0.427, 0.427, 0.4355, 0.443]

7: [0.439, 0.418, 0.438, 0.4325, 0.452]

9: [0.443, 0.431, 0.454, 0.4375, 0.4535]

11: [0.443, 0.429, 0.442, 0.442, 0.4545]

13: [0.451, 0.4275, 0.4415, 0.4385, 0.461]

15: [0.449, 0.43, 0.446, 0.433, 0.4605]

17: [0.448, 0.4315, 0.439, 0.435, 0.4555]

19: [0.45, 0.426, 0.437, 0.4345, 0.448]

21: [0.449, 0.4255, 0.4445, 0.436, 0.4505]

.....

Optimal value of K = 13

Accuracy score = 0.463

Confusion Matrix:

Testing Error = 0.53699

Training Error = 0.4557