```
 1 C:\python\python(3.12)\python.exe C:\Users\Anilk\
   OneDrive\Documents\LRDDOS\test4.py
 2 k = 1: Accuracy = 0.9996, TP = 8048, TN = 2012, FP =
   0, FN = 4
 3 evaluation for 1 : TPR = 0.9995, FPR = 0.0000,
   Precision = 1.0000, Recall = 0.9995, F1 Score = 0.
   9998
 4 k = 2: Accuracy = 0.9991, TP = 8043, TN = 2012, FP =
   0, FN = 9
 5 evaluation for 2 : TPR = 0.9989, FPR = 0.0000,
   Precision = 1.0000, Recall = 0.9989, F1 Score = 0.
   9994
 6 k = 3: Accuracy = 0.9992, TP = 8047, TN = 2009, FP =
   3, FN = 5
 7 evaluation for 3 : TPR = 0.9994, FPR = 0.0015,
   Precision = 0.9996, Recall = 0.9994, F1 Score = 0.
   9995
 8 k = 4: Accuracy = 0.9990, TP = 8045, TN = 2009, FP =
   3, FN = 7
 9 evaluation for 4 : TPR = 0.9991, FPR = 0.0015,
   Precision = 0.9996, Recall = 0.9991, F1 Score = 0.
   9994
10 k = 5: Accuracy = 0.9995, TP = 8050, TN = 2009, FP =
   3, FN = 2
11 evaluation for 5 : TPR = 0.9998, FPR = 0.0015,
   Precision = 0.9996, Recall = 0.9998, F1 Score = 0.
   9997
12 k = 6: Accuracy = 0.9985, TP = 8040, TN = 2009, FP =
   3, FN = 12
13 evaluation for 6 : TPR = 0.9985, FPR = 0.0015,
   Precision = 0.9996, Recall = 0.9985, F1 Score = 0.
   9991
14 k = 7: Accuracy = 0.9985, TP = 8041, TN = 2008, FP =
   4, FN = 11
15 evaluation for 7 : TPR = 0.9986, FPR = 0.0020,
   Precision = 0.9995, Recall = 0.9986, F1 Score = 0.
   9991
16 k = 8: Accuracy = 0.9985, TP = 8041, TN = 2008, FP =
   4, FN = 11
17 evaluation for 8 : TPR = 0.9986, FPR = 0.0020,
   Precision = 0.9995, Recall = 0.9986, F1 Score = 0.
```

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17 9991
18 k = 9: Accuracy = 0.9988, TP = 8044, TN = 2008, FP =
   4, FN = 8
19 evaluation for 9 : TPR = 0.9990, FPR = 0.0020,
   Precision = 0.9995, Recall = 0.9990, F1 Score = 0.
   9993
20 k = 10: Accuracy = 0.9986, TP = 8041, TN = 2009, FP
    = 3, FN = 11
21 evaluation for 10 : TPR = 0.9986, FPR = 0.0015,
   Precision = 0.9996, Recall = 0.9986, F1 Score = 0.
   9991
22 Overall Accuracy: 99.89%
23
```