KNN Assignment  
  
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Q1: Implement KNN for classification on Iris dataset (Multi-class classification dataset). Use the

dataset division as 70% for training and 30% for testing.

Determine the count of correctly classified testing samples for K = [1, 2, 3, 4, 5].out of total

testing samples.

Explanation

1. Loading the Data: We load the Iris dataset and split it into training and testing sets.
2. Euclidean Distance: We define a function to compute the Euclidean distance between two points.
3. KNN Function: This function calculates the distance between a test sample and all training samples, selects the k nearest samples, and assigns the class label that is most common among these neighbors.
4. Testing Different K Values: We loop through different values of k, classify the test samples, and count how many were classified correctly.

Results

This code will print the number of correctly classified testing samples for each value of k in [1, 2, 3, 4, 5].



