**[Que-50.17] - Explain the k-nearest neighbors' algorithm,**

### **k-Nearest Neighbors (k-NN) Algorithm**

**Definition:** k-NN is a non-parametric, lazy learning algorithm used for classification and regression.

**Working:**

* Stores all available cases and classifies new cases based on a similarity measure (e.g., distance functions).
* Finds the k closest data points to the new data point and assigns the most common class among them (for classification) or averages their values (for regression).