**Ex No: 11 Implementation of Decision tree classification techniques**

**Problem Scenario:**  
A hospital wants to develop a system that can assist doctors in diagnosing whether a tumor is **benign** or **malignant** based on patient test results. The **Breast Cancer Wisconsin dataset**, which contains medical attributes such as cell size, cell shape, and other features of breast mass samples, will be used for this purpose.

Using a **Decision Tree Classifier**, we aim to train a model that can classify tumors into benign or malignant categories. The model will be implemented in Python, and the **trained decision tree will be plotted** to visually understand how the model makes its decisions.

**Expected Output:**

* The program should correctly classify tumors as benign or malignant.
* Display the **accuracy of the decision tree model** on the dataset.
* A **plotted tree diagram** showing the decision-making process step by step.