```
##E.Anjukumar
##21X05A6715
##CSE-DS
##NRCM
```

##PROJECT TITLE: PREDICTION OF "IRIS.CSV".DATASET FOR DECISION TREE ALGORITHM USING SUPERVISED LEARNING MACHINE ALGORITHM

#PROBLEM STATEMENT A american based botanical garden a grow iris flower in their lab.But using "bio-technology" in a single tree different type of flowe is grow.As a data science engineer find out how much accuracy is there all category contain same species

```
from sklearn.datasets import load iris
from sklearn.model selection import train test split
from sklearn.tree import DecisionTreeClassifier
from sklearn.metrics import accuracy score
# Load the Iris dataset
iris = load iris()
X = iris.data
y = iris.target
# Split the dataset into training and testing sets
X_train, X_test, y_train, y_test = train_test_split(X, y,
test size=0.2, random state=42)
# Create a Decision Tree classifier
decision tree = DecisionTreeClassifier()
# Train the classifier on the training data
decision tree.fit(X train, y train)
DecisionTreeClassifier()
# Make predictions on the test data
y pred = decision tree.predict(X test)
# Calculate accuracy
accuracy = accuracy score(y test, y pred)
print(f"Accuracy: {accuracy:.2f}")
Accuracy: 1.00
```

##CONCLUSION According to my decision accuracy will be 1%