**Decision Tree**

**We are using Trained Dataset for this Practical**

**Code**

from matplotlib import pyplot as plt

from sklearn import datasets

from sklearn.tree import DecisionTreeClassifier

from sklearn import tree

# Prepare the data data

iris = datasets.load\_iris()

X = iris.data

y = iris.target

print(X)

print(y)

# Fit the classifier with default hyper-parameters

clf = DecisionTreeClassifier(random\_state=1234)

model = clf.fit(X, y)

fig = plt.figure(figsize=(10,10))

\_ = tree.plot\_tree(clf,

feature\_names=iris.feature\_names,

class\_names=iris.target\_names,

filled=True)

**OUTPUT**

**Value of X**

[[5.1 3.5 1.4 0.2]

[4.9 3. 1.4 0.2]

[4.7 3.2 1.3 0.2]

[4.6 3.1 1.5 0.2]

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**Value of y**

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**Tree**

