```
# Tille : Decision Tree
import pandas as pd
import numpy as np
pima = pd.read_csv("/content/pima-indians-diabetes.xls")
X = pima.iloc[:,[1,2,3]].values
Y=pima.iloc[:,-1].values
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X, Y, test_size=0.3, random_state=1)
from sklearn.tree import DecisionTreeClassifier
model = DecisionTreeClassifier().fit(X\_train,y\_train)
y_pred = model.predict(X_test)
from sklearn import metrics
print("Accuracy:",metrics.accuracy_score(y_test, y_pred))
Accuracy: 0.683982683982684
from sklearn.tree import DecisionTreeClassifier
from sklearn.model_selection import train_test_split
from sklearn import metrics
pima = pd.read_csv("/content/pima-indians-diabetes.xls", header=None)
pima.head()
X =pima.iloc[:,[1,2,3]].values
Y=pima.iloc[:,-1].values
X_train, X_test, y_train, y_test = train_test_split(X, Y, test_size=0.3, random_state=1)
model = DecisionTreeClassifier()
model = model.fit(X_train,y_train)
y_pred = model.predict(X_test)
print("Accuracy:",metrics.accuracy_score(y_test, y_pred))
Accuracy: 0.645021645021645
from sklearn.datasets import load_iris
from sklearn import tree
dataset=load_iris()
x=dataset.data
y=dataset.target
model=tree.DecisionTreeClassifier().fit(x,y)
tree.plot_tree(model)
model.predict([[2,2,2,2]])
```

## ⇒ array([0])

