

```
import pandas as pd

from sklearn import tree

from sklearn.preprocessing import LabelEncoder

from sklearn.naive_bayes import GaussianNB

from sklearn.model_selection import train_test_split

from sklearn.metrics import accuracy_score


data = pd.read_csv('EX6.csv')

print("The first5 Values of data is :\n", data.head())


data=data.apply(LabelEncoder().fit_transform)

data.head()


X = data.iloc[:, :-1]

print("\nThe First 5 values of the train data is\n", X.head())


y = data.iloc[:, -1]

print("\nTheFirst 5 values of train output is\n", y.head())


le_Good_Job = LabelEncoder()

y = le_Good_Job.fit_transform(y)

print("\nNow the Train output is\n",y)


X_train, X_test, y_train, y_test = train_test_split(X,y, test_size = 0.20)


classifier = GaussianNB()

classifier.fit(X_train,y_train)

print("Accuracy is:", accuracy_score(classifier.predict(X_test), y_test))
```