```
import pandas as pd
from sklearn.model selection import train_test_split
from sklearn.ensemble import RandomForestClassifier
data=pd.read csv('/content/Iris.csv')
data.head()
\supseteq
        Id SepalLengthCm SepalWidthCm PetalLengthCm PetalWidthCm
                                                                           \blacksquare
     0 1
                     5.1
                                  3.5
                                                1.4
                                                             0.2 Iris-setosa
                                                                           ıl.
     1 2
                     4.9
                                  3.0
                                                1.4
                                                             0.2 Iris-setosa
     2 3
                     4.7
                                  3.2
                                               1.3
                                                             0.2 Iris-setosa
                     4.6
                                  3.1
                                               1.5
                                                             0.2 Iris-setosa
     3 4
     4 5
                     5.0
                                  3.6
                                               1.4
                                                            0.2 Iris-setosa
data.isnull().sum()
    Id
    SepalLengthCm
                    0
    SepalWidthCm
    PetalLengthCm
    PetalWidthCm
                    0
    Species
    dtype: int64
data.columns
    Index(['Id', 'SepalLengthCm', 'SepalWidthCm', 'PetalLengthCm', 'PetalWidthCm',
           'Species'],
          dtype='object')
a=['SepalLengthCm', 'SepalWidthCm', 'PetalLengthCm', 'PetalWidthCm', 'Species']
for i in a:
  print(i,data[i].nunique())
    SepalLengthCm 35
    SepalWidthCm 23
    PetalLengthCm 43
    PetalWidthCm 22
    Species 3
x=data.drop('Species',axis=1)
y=data['Species']
xtrain,xtest,ytrain,ytest=train_test_split(x,y,test_size=0.2,random_state=42)
```