CODE:-

```
₽= ↑ ↓ ■ … ■
     import pandas as pd
     from sklearn import model_selection
     from sklearn.ensemble import RandomForestClassifier
     from sklearn.model_selection import train_test_split
     df = pd.read_csv('iris.csv')
     array = df.values
     X = df.iloc[:, :-1]
     y = df.iloc[:, -1]
     X_train, X_test, y_train, y_test = train_test_split(X, y, test_size = 0.3)
                                                                                                                         Python
      num_trees = 50
      max_features = 4
      model = RandomForestClassifier(n_estimators=num_trees, max_features=max_features)
      model.fit(X_train, y_train)
      y_pred = model.predict(X_test)
                                                                                                                         Python
                                                       from sklearn.metrics import confusion_matrix
      from sklearn.metrics import classification_report
      from sklearn.metrics import accuracy_score
      print('Accuracy = ',accuracy_score(y_pred, y_test))
      y_true = y_test
      print('\nConfusion Matrix: \n', confusion_matrix(y_true, y_pred))
      matrix = classification_report(y_true,y_pred)
      print('\nClassification report : \n',matrix)
                                                                                                                         Python
... Accuracy = 0.9333333333333333
   Confusion Matrix:
    [[17 0 0]
    [ 0 15 0]
    [ 0 3 10]]
   Classification report :
                 precision recall f1-score support
                    1.00
             1
                            1.00
                                       1.00
                                                   17
             2
                     0.83
                              1.00
                                        0.91
                                                    15
                    1.00
             3
                              0.77
                                        0.87
                                                   13
      accuracy
                                        0.93
                                                   45
                            0.92
0.93
                  0.94
                                        0.93
                                                   45
      macro avg
                   0.94
   weighted avg
                                        0.93
                                                   45
```