```
from sklearn.model selection import train test split
 from sklearn.linear_model import LogisticRegression
 from sklearn.metrics import accuracy_score,precision_score,recall_score,fo_auc_score,confusion_matrix,classification_report
 iris=load_iris()
 x=iris.data
y=iris.target
                                                                                                                                                       In [2]:
 x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.2,random_state=42)
 log_reg=LogisticRegression(max_iter=1000)
                                                                                                                                                        In [3]:
 log_reg.fit(x_train,y_train)
y_pred=log_reg.predict(x_test)
 accuracy=round(accuracy_score(y_test,y_pred)*100,2)
print("Accuracy:",accuracy)
Accuracy: 100.0
                                                                                                                                                       In [4]:
precision=precision_score(y_test,y_pred,average="weighted")
print("Precision:",precision)
Precision: 1.0
                                                                                                                                                       In [5]:
 recall=recall_score(y_test,y_pred,average="weighted")
print("Recall:",recall)
Recall: 1.0
                                                                                                                                                       In [6]:
f1=f1_score(y_test,y_pred,average="weighted")
print("f1score:",f1)
f1score: 1.0
                                                                                                                                                       In [7]:
roc_auc=roc_auc_score(y_test,log_reg.predict_proba(x_test),multi_class='ovr')
print("ROC AUC score:",roc_auc)
ROC AUC score: 1.0
                                                                                                                                                       In [8]:
conf_matrix=confusion_matrix(y_test,y_pred)
print("Confusion matrix:",conf_matrix)
Confusion matrix: [[10 0 0]
[0 9 0]
[0 0 11]]
                                                                                                                                                       In [9]:
 result1=classification_report(y_test,y_pred)
print("Classification report:",result1)
Classification report:
                             precision recall f1-score support
                    1.00
       0
            1.00
                            1.00
                                      10
            1.00
                    1.00
                            1.00
                                      9
       1
       2
            1.00
                    1.00
                             1.00
                                      11
                            1.00
                                     30
  accuracy
 macro avg
                1.00
                         1.00
                                 1.00
                                          30
weighted avg
                 1.00
                         1.00
                                 1.00
                                           30
                                                                                                                                                        In []:
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```

from sklearn.datasets import load_iris

In [1]: