```
import pandas as pd
fromsklearn.datasets import load_iris
fromsklearn.linear_model import LogisticRegression
fromsklearn.model_selection import train_test_split
fromsklearn.metrics import accuracy_score

iris=load_iris()

df=pd.DataFrame(iris.data,columns=iris.feature_names)
df['target']=iris.target

print("Statistical details of Iris-setosa:")
print(df[df['target']==0].describe())
print("Statistical details of Iris-versicolor:")
print(df[df['target']==1].describe())
print("Statistical details of Iris-virginica:")
print(df[df['target']==2].describe())

X=df.iloc[:,:-1]
y=df.iloc[:,-1]
X_train,X_test,y_train,y_test=train_test_split(X,y,test_size=0.2,random_state=42)#fitalogisticregre
ssionmodel
logreg=LogisticRegression()
logreg.fit(X_train,y_train)

Y_pred=logreg.predict(X_test)

accuracy=accuracy_score(y_test,y_pred)
print("Accuracy of the logistic regression model:",accuracy)
```