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1 from sklearn import datasets
 2 from sklearn.linear_model import LinearRegression
 3 from sklearn.metrics import mean squared error
 4 from sklearn.model selection import train test split
 5 from sklearn.ensemble import RandomForestRegressor
 6 from sklearn.linear_model import LogisticRegression
 7 from sklearn.metrics import accuracy_score,confusion_matrix,classi
 8 from sklearn.naive_bayes import GaussianNB
 9 from sklearn.neighbors import KNeighborsClassifier
10
11 iris=datasets.load iris()
12 x_train, x_test, y_train, y_test=train_test_split(iris.data, iris.tars
13 # model=LinearRegression()
14 # model=RandomForestRegressor(n_estimators=100)
15 # model=LogisticRegression()
16 model=KNeighborsClassifier(n_neighbors=3)
17 # model=GaussianNB()
18 model.fit(x_train,y_train)
19 y_pred=model.predict(x_test)
20 # mse=mean_squared_error(y_test,y_pred)
21 # print(mse)
22 ax=accuracy_score(y_test,y_pred)
23 cf=confusion_matrix(y_test,y_pred)
24 cr=classification_report(y_test,y_pred)
25 cl=float(input("Enter cl:"))
26 cw=float(input("Enter cw:"))
27 pl=float(input("Enter pl:"))
28 pw=float(input("Enter pw:"))
29 prdcls=model.predict([[cl,cw,pl,pw]])
30 prdsp=iris.target_names[prdcls]
31 print(prdsp)
32 print(f"accuracy:{ax}")
33 print(f"cf:{cf}")
34 print(f"cr:{cr}")
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 8 from sklearn.naive bayes import GaussianNB
 9 from sklearn.neighbors import KNeighborsClassifier
10 from sklearn.tree import DecisionTreeClassifier
11
12 iris=datasets.load iris()
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13 x_train,x_test,y_train,y_test=train_test_split(iris.data,iris.targ
14 # model=LinearRegression()
15 # model=RandomForestRegressor(n estimators=100)
16 # model=LogisticRegression()
17 # model=KNeighborsClassifier(n neighbors=3)
18 # model=GaussianNB()
19 model=DecisionTreeClassifier()
20 model.fit(x_train,y_train)
21 y pred=model.predict(x test)
22 # mse=mean squared error(y test,y pred)
23 # print(mse)
24 ax=accuracy_score(y_test,y_pred)
25 cf=confusion matrix(y test,y pred)
26 cr=classification_report(y_test,y_pred)
27 cl=float(input("Enter cl:"))
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31 prdcls=model.predict([[cl,cw,pl,pw]])
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33 print(prdsp)
34 print(f"accuracy:{ax}")
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```