```
From sklearn.datasets import load_iris
From sklearn.model_selection import train_test_split
From sklearn.neighbors import KNeighborsClassifier
From sklearn.metrics import accuracy score
# Load Iris dataset
Iris = load_iris()
X = iris.data
               # Features
Y = iris.target # Labels
# Split data into training and testing sets (70% train, 30% test)
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.3, random_state=42)
# Initialize KNN with k=3
Knn = KNeighborsClassifier(n_neighbors=3)
# Train the model
Knn.fit(X_train, y_train)
# Predict on test data
Y pred = knn.predict(X test)
# Calculate accuracy
Accuracy = accuracy_score(y_test, y_pred)
```

Print("Predicted labels:", y\_pred)

Print("Actual labels: ", y\_test)

Print(f"Accuracy: {accuracy \* 100:.2f}%")

## Output:

Actual labels: [1021100212210200220112211010022000102110020

1 2 1]

Accuracy: 97.78%