

```
from sklearn.tree import DecisionTreeClassifier
```

```
from sklearn.metrics import accuracy_score, confusion_matrix
```

```
model = DecisionTreeClassifier()
```

```
model.fit(x_train, y_train)
```

```
y_pred = model.predict(x_test)
```

```
accuracy = accuracy_score(y_test, y_pred)
```

```
print("Accuracy:", accuracy)
```

```
conf_matrix = confusion_matrix(y_test, y_pred)
```

```
plt.figure(figsize=(8, 6))
```

```
sns.heatmap(conf_matrix, annot=True, fmt="d", cmap="Blues")
```

```
plt.title("Confusion Matrix")
```

```
plt.xlabel("Predicted")
```

```
plt.ylabel("Actual")
```

```
plt.show()
```