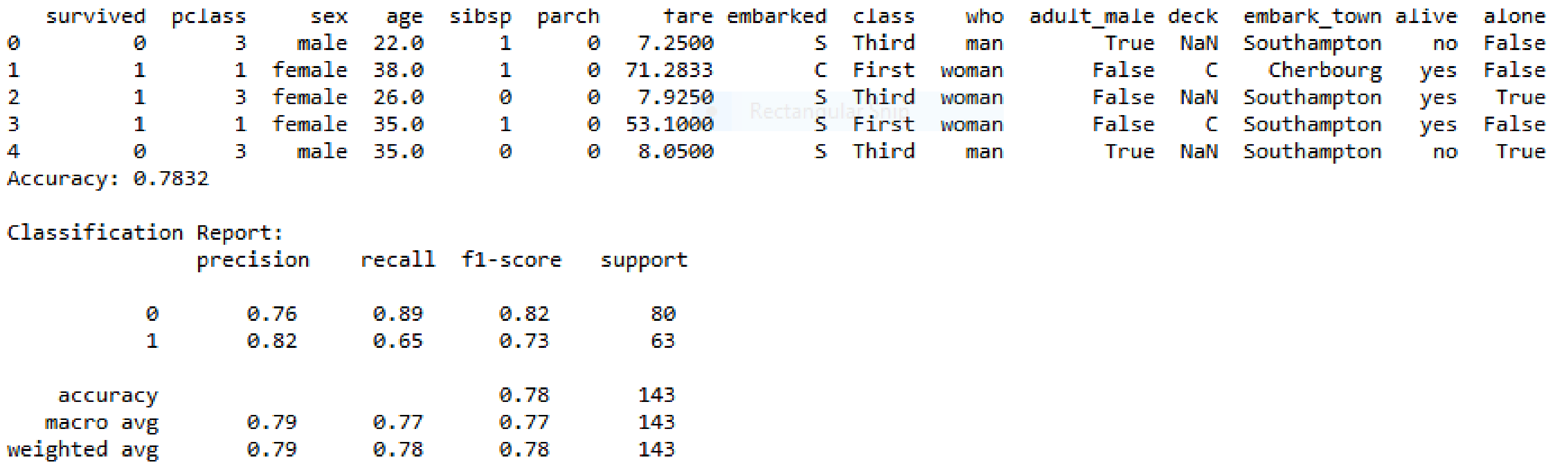
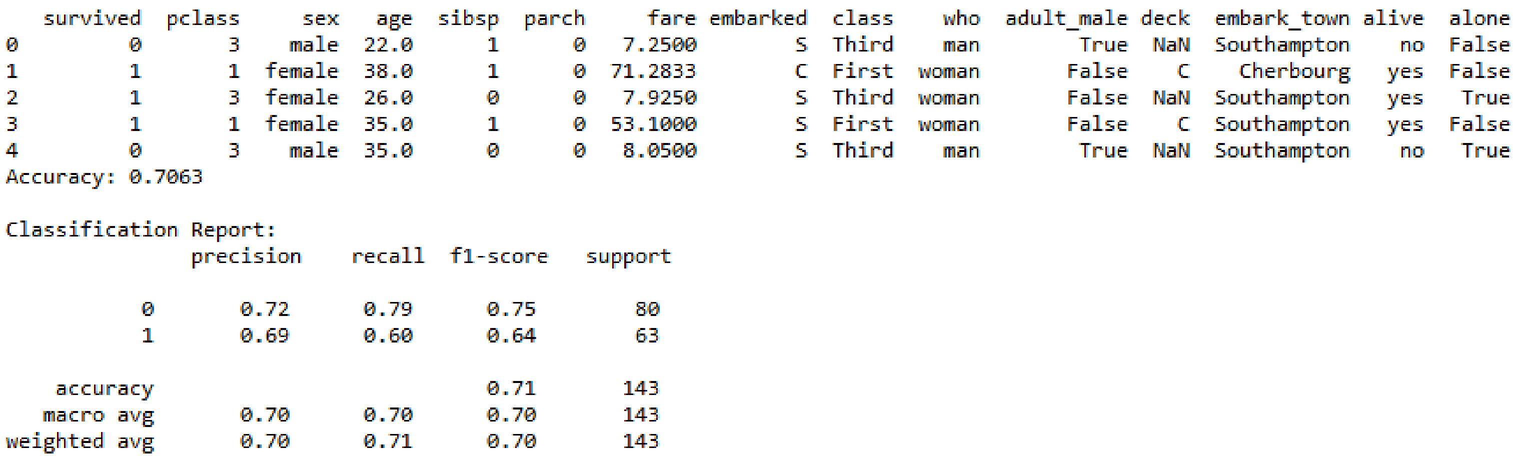
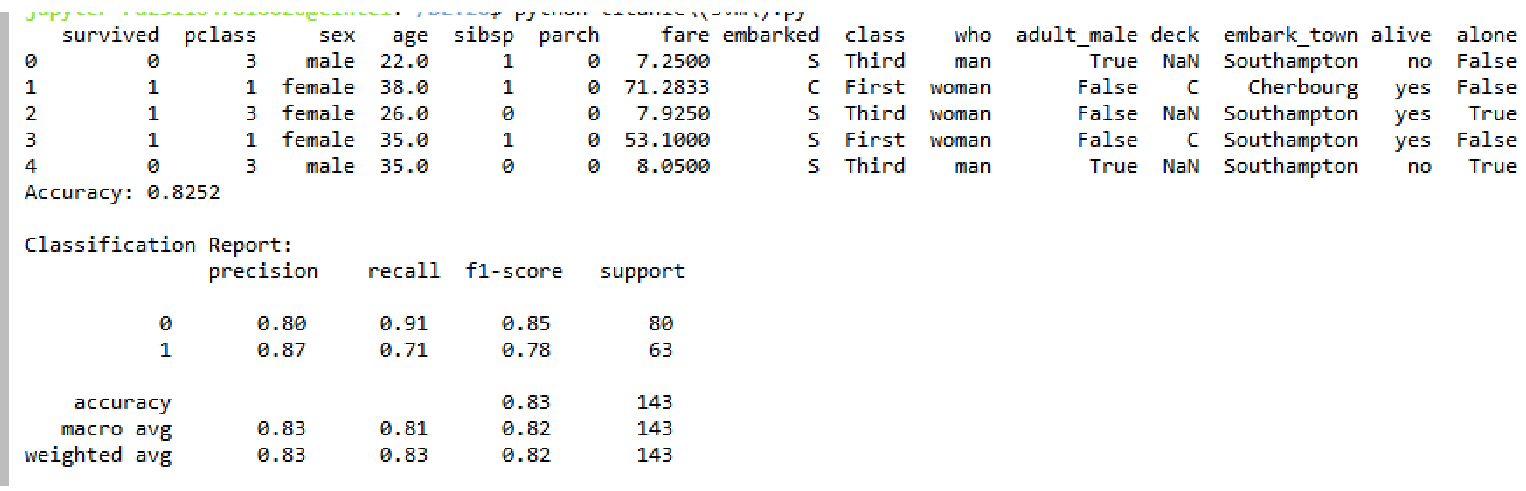


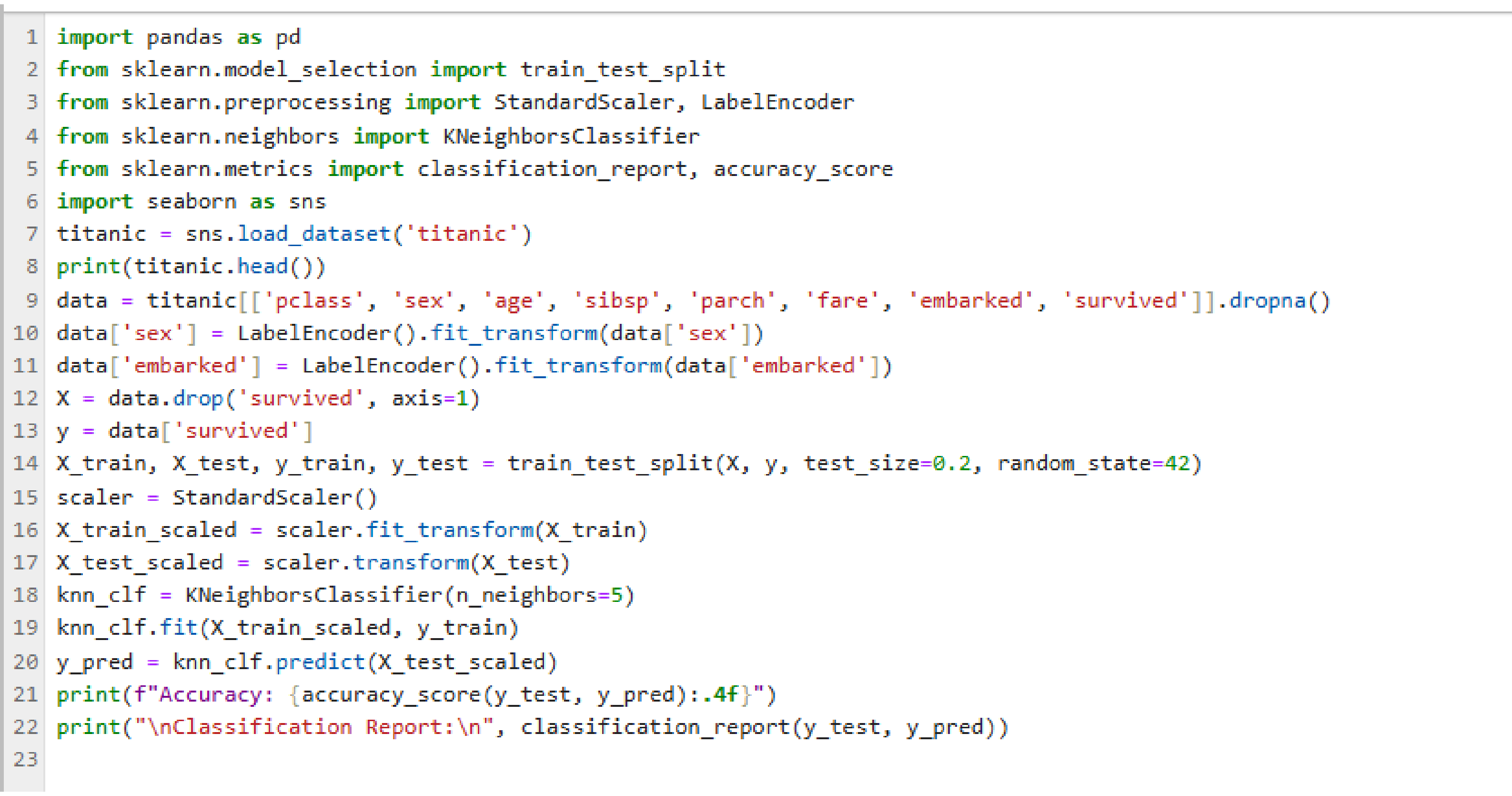
```
   survived  pclass     sex   age  sibsp  parch     fare embarked  class    who  adult_male deck  embark_town alive  alone
0         0       3    male  22.0      1      0   7.2500        S  Third    man        True  NaN  Southampton    no  False
1         1       1  female  38.0      1      0  71.2833        C  First  woman       False    C    Cherbourg   yes  False
2         1       3  female  26.0      0      0   7.9250        S  Third  woman       False  NaN  Southampton   yes   True
3         1       1  female  35.0      1      0  53.1000        S  First  woman       False    C  Southampton   yes  False
4         0       3    male  35.0      0      0   8.0500        S  Third    man        True  NaN  Southampton    no   True
Accuracy: 0.7832

Classification Report:
              precision    recall  f1-score   support

           0       0.76      0.89      0.82        80
           1       0.82      0.65      0.73        63

    accuracy                           0.78       143
   macro avg       0.79      0.77      0.77       143
weighted avg       0.79      0.78      0.78       143
```



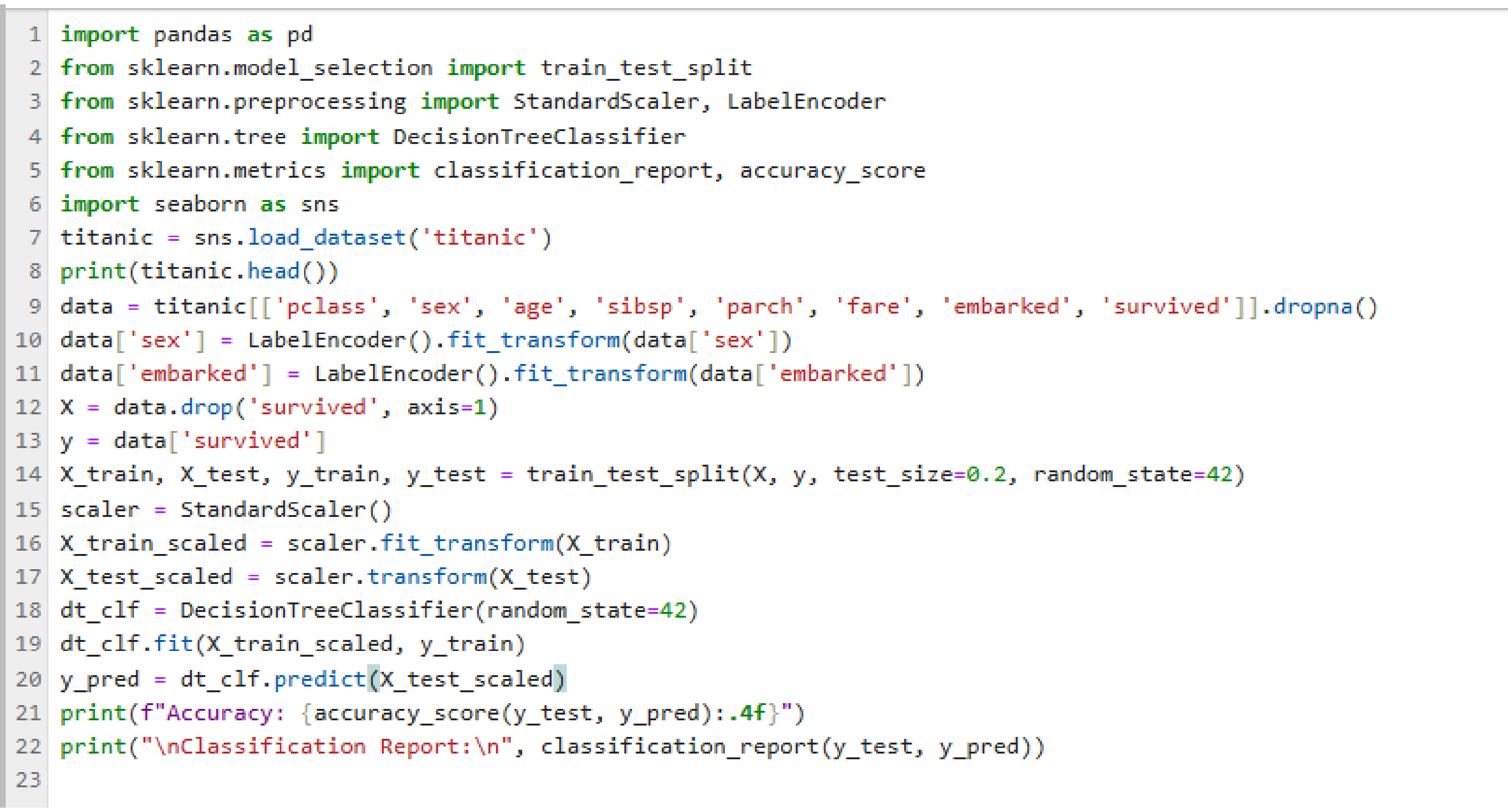
```
   survived  pclass     sex   age  sibsp  parch     fare embarked  class    who  adult_male deck  embark_town alive  alone
0         0       3    male  22.0      1      0   7.2500        S  Third    man        True  NaN  Southampton    no  False
1         1       1  female  38.0      1      0  71.2833        C  First  woman       False    C    Cherbourg   yes  False
2         1       3  female  26.0      0      0   7.9250        S  Third  woman       False  NaN  Southampton   yes   True
3         1       1  female  35.0      1      0  53.1000        S  First  woman       False    C  Southampton   yes  False
4         0       3    male  35.0      0      0   8.0500        S  Third    man        True  NaN  Southampton    no   True
Accuracy: 0.7063

Classification Report:
              precision    recall  f1-score   support

           0       0.72      0.79      0.75        80
           1       0.69      0.60      0.64        63

    accuracy                           0.71       143
   macro avg       0.70      0.70      0.70       143
weighted avg       0.70      0.71      0.70       143
```



```
[illegible] python titanic((svm)).py
   survived  pclass     sex   age  sibsp  parch     fare embarked  class    who  adult_male deck  embark_town alive  alone
0         0       3    male  22.0      1      0   7.2500        S  Third    man        True  NaN  Southampton    no  False
1         1       1  female  38.0      1      0  71.2833        C  First  woman       False    C    Cherbourg   yes  False
2         1       3  female  26.0      0      0   7.9250        S  Third  woman       False  NaN  Southampton   yes   True
3         1       1  female  35.0      1      0  53.1000        S  First  woman       False    C  Southampton   yes  False
4         0       3    male  35.0      0      0   8.0500        S  Third    man        True  NaN  Southampton    no   True
Accuracy: 0.8252

Classification Report:
               precision    recall  f1-score   support

           0       0.80      0.91      0.85        80
           1       0.87      0.71      0.78        63

    accuracy                           0.83       143
   macro avg       0.83      0.81      0.82       143
weighted avg       0.83      0.83      0.82       143
```



```python
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import StandardScaler, LabelEncoder
from sklearn.neighbors import KNeighborsClassifier
from sklearn.metrics import classification_report, accuracy_score
import seaborn as sns
titanic = sns.load_dataset('titanic')
print(titanic.head())
data = titanic[['pclass', 'sex', 'age', 'sibsp', 'parch', 'fare', 'embarked', 'survived']].dropna()
data['sex'] = LabelEncoder().fit_transform(data['sex'])
data['embarked'] = LabelEncoder().fit_transform(data['embarked'])
X = data.drop('survived', axis=1)
y = data['survived']
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)
scaler = StandardScaler()
X_train_scaled = scaler.fit_transform(X_train)
X_test_scaled = scaler.transform(X_test)
knn_clf = KNeighborsClassifier(n_neighbors=5)
knn_clf.fit(X_train_scaled, y_train)
y_pred = knn_clf.predict(X_test_scaled)
print(f"Accuracy: {accuracy_score(y_test, y_pred):.4f}")
print("\nClassification Report:\n", classification_report(y_test, y_pred))

```



```python
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import StandardScaler, LabelEncoder
from sklearn.tree import DecisionTreeClassifier
from sklearn.metrics import classification_report, accuracy_score
import seaborn as sns
titanic = sns.load_dataset('titanic')
print(titanic.head())
data = titanic[['pclass', 'sex', 'age', 'sibsp', 'parch', 'fare', 'embarked', 'survived']].dropna()
data['sex'] = LabelEncoder().fit_transform(data['sex'])
data['embarked'] = LabelEncoder().fit_transform(data['embarked'])
X = data.drop('survived', axis=1)
y = data['survived']
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)
scaler = StandardScaler()
X_train_scaled = scaler.fit_transform(X_train)
X_test_scaled = scaler.transform(X_test)
dt_clf = DecisionTreeClassifier(random_state=42)
dt_clf.fit(X_train_scaled, y_train)
y_pred = dt_clf.predict(X_test_scaled)
print(f"Accuracy: {accuracy_score(y_test, y_pred):.4f}")
print("\nClassification Report:\n", classification_report(y_test, y_pred))

```