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ROLL NO: 08

PRACTICAL: 3

```python
from sklearn.datasets import load_wine
from sklearn.model_selection import train_test_split

# Load the Wine dataset
wine = load_wine()
X = wine.data
y = wine.target

# Split the data into training and testing sets (80% training, 20% testing)
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)

# Display the shapes of the resulting sets
print("Wine Dataset:")
print("Training set shapes:")
print("X_train:", X_train.shape)
print("y_train:", y_train.shape)
print("\nTesting set shapes:")
print("X_test:", X_test.shape)
print("y_test:", y_test.shape)

Wine Dataset:
Training set shapes:
X_train: (142, 13)
y_train: (142,)

Testing set shapes:
X_test: (36, 13)
y_test: (36,)
```