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ROLL NO: 12

PRACTICAL: 3

```python
from sklearn.datasets import load_breast_cancer from
sklearn.model_selection import train_test_split
# Load the Breast Cancer dataset breast_cancer
= load_breast_cancer()
X = breast_cancer.data y =
breast_cancer.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("\nBreast Cancer 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)


Breast Cancer Dataset:
Training set shapes:
X_train: (455, 30)
y_train: (455,) Testing
set shapes:
X_test: (114, 30) y_test:
(114,)
```