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ROLL NO: 25

PRACTICAL: 3

```
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,)
```