

# Sania Bibi

## Task # 23

+ Code + Text

```
✓ 0s ▶ from sklearn.datasets import load_iris
      from sklearn.model_selection import train_test_split
      |
      # Load the Iris dataset
      iris = load_iris()

      # Split the dataset into train and test(70-30 split)
      X_train, X_test, y_train, y_test = train_test_split(iris.data, iris.target, test_size=0.3, random_state=42)

      # split the training set into training and validation sets (60-40 split)
      X_train, X_val, y_train, y_val = train_test_split(X_train, y_train, test_size=0.4, random_state=42)

      print("Training set shape:", X_train.shape)
      print("Validation set shape:", X_val.shape)
      print("Test set shape:", X_test.shape)
```

```
Training set shape: (63, 4)
Validation set shape: (42, 4)
Test set shape: (45, 4)
```