from sklearn.datasets import load\_iris

import pandas as pd

# Load the Iris dataset

iris = load\_iris()

df = pd.DataFrame(data=iris.data, columns=iris.feature\_names)

df['target'] = iris.target

# Display the first five rows of the dataset

print("First five rows of the dataset:")

print(df.head())

# Show the dataset's shape and summary statistics

print("\nDataset shape:", df.shape)

print("Summary statistics:")

print(df.describe())

**OUTPUT**: First five rows of the dataset:

sepal length (cm) sepal width (cm) petal length (cm) petal width (cm) \

0 5.1 3.5 1.4 0.2

1 4.9 3.0 1.4 0.2

2 4.7 3.2 1.3 0.2

3 4.6 3.1 1.5 0.2

4 5.0 3.6 1.4 0.2

target

0 0

1 0

2 0

3 0

4 0

Dataset shape: (150, 5)

Summary statistics:

sepal length (cm) sepal width (cm) petal length (cm) \

count 150.000000 150.000000 150.000000

mean 5.843333 3.057333 3.758000

std 0.828066 0.435866 1.765298

min 4.300000 2.000000 1.000000

25% 5.100000 2.800000 1.600000

50% 5.800000 3.000000 4.350000

75% 6.400000 3.300000 5.100000

max 7.900000 4.400000 6.900000

petal width (cm) target

count 150.000000 150.000000

mean 1.199333 1.000000

std 0.762238 0.819232

min 0.100000 0.000000

25% 0.300000 0.000000

50% 1.300000 1.000000

75% 1.800000 2.000000

max 2.500000 2.000000