# AI\_LAB\_Task9

## • Import pandas:

import pandas as pd imports the pandas library, used for data manipulation and analysis.

### • Load dataset:

df = pd.read\_csv("Iris.csv") reads the Iris dataset from a CSV file into a pandas
DataFrame called df.

### • Display first 5 rows:

df.head() shows the first five records to get a quick view of the data.

# • Check dataset shape:

df. shape returns the number of rows and columns in the dataset.

### • List column names:

df.columns.tolist() returns the column names as a list.

## • Descriptive statistics:

df.describe() provides summary statistics like mean, count, standard deviation, min, and max for each numerical column.

# • Check missing values:

df.isnull().sum() checks each column for missing (null) values and counts how many are in each.

#### • Class distribution:

df['Species'].value\_counts() shows how many samples there are for each iris species in the dataset.

## • Data types:

df.dtypes displays the data type of each column (e.g., int64, float64, object).

### **OUTPUT**

