------------------------------------------expt2-------------------------------------

import pandas as pd

# Read CSV file into a pandas DataFrame

dataset = pd.read\_csv('C:\\Users\\workplace\\Desktop\\DStest\\Book1.csv')

# Print the first 3 rows of the dataset

print(dataset.head(3))

# Print the shape of the dataset

print(dataset.shape)

-------------------------------------------expt 3--------------------------------------------

# Import pandas and matplotlib.pyplot libraries

import pandas as pd

import matplotlib.pyplot as plt

# Read CSV file into a pandas DataFrame

dataset = pd.read\_csv('C:\\Users\\workplace\\Desktop\\DStest\\Book1.csv')

# Print the first 3 rows of the dataset

print(dataset.head(3))

# Print the shape of the dataset (number of rows and columns)

print(dataset.shape)

# Print the last 2 rows of the dataset

print(dataset.tail(2))

# Create a scatter plot using the 'Name' column as the x-axis and the 'RollNo' column as the y-axis

dataset.plot(kind='scatter', x='Name', y='RollNo')

# Display the plot

plt.show()

------------------------------------expt4---------------------------------------------------------

import pandas as pd

import matplotlib.pyplot as plt

# Read CSV file into a pandas DataFrame

dataset = pd.read\_csv('C:\\Users\\workplace\\Desktop\\DStest\\Book1.csv')

# Create a scatter plot using the 'Name' and 'Class' columns of the dataset

plt.scatter(dataset['Name'],dataset['Class'])

# Set the x-label of the plot to 'Name (firstName)'

plt.xlabel('Name (firstName)')

# Set the y-label of the plot to 'Class (ClassName)'

plt.ylabel('Class (ClassName)')

# Display the plot

plt.show()

-----------------------------------------barexpt------------------------------------------------

import pandas as pd

import matplotlib.pyplot as plt

# Read the CSV file into a pandas DataFrame

dataset = pd.read\_csv('C:\\Users\\workplace\\Desktop\\DStest\\Book1.csv')

# Create a scatter plot of 'Name' vs 'Class' columns

# The 'Name' column will be plotted on the x-axis and the 'Class' column will be plotted on the y-axis

plt.scatter(dataset['Name'], dataset['Class'])

# Set the x-label and y-label of the scatter plot

plt.xlabel('Name (first name)')

plt.ylabel('Class (class name)')

# Create a bar chart of 'Name' vs 'Class' columns

# The 'Name' column will be plotted on the x-axis and the 'Class' column will be plotted on the y-axis

# The color of each bar will be determined by the corresponding color in the list ['red', 'green', 'blue']

x = dataset['Name']

y = dataset['Class']

plt.bar(x, y, color=['red', 'green', 'blue'])

# Display the plot

plt.show()

------------------------------lastexpt----------------------------------------

import pandas as pd

import matplotlib.pyplot as plt

# Read CSV file into a pandas DataFrame

# Set the first column as the index column and replace '??' with NaN as missing values

dataset = pd.read\_csv('C:\\Users\\workplace\\Desktop\\DStest\\Book1.csv', index\_col=0, na\_values='??')

# Print information about the dataset

dataset.info()

# Print the shape of the dataset

print(dataset.shape)

# Print the first 2 rows of the dataset

print(dataset.head(2))

# Print the last 2 rows of the dataset

print(dataset.tail(2))

# Define the column name for the percentage data

percentage = 'percentage'

# Calculate the mean of the 'percentage' column and print it

mean = dataset[percentage].mean()

# Calculate the mode of the 'percentage' column and print it

mode = dataset[percentage].mode()