**PRACTICAL-11**

**AIM:** Write a program to implement all the functionalities of the Pandas library in Python

**Source Code:**

import pandas as pd

list\_data = [10, 20, 30, 40]

list\_series = pd.Series(list\_data)

print("Series from list:")

print(list\_series)

print()

dict\_data = {'A': 100, 'B': 200, 'C': 300, 'D': 400}

dict\_series = pd.Series(dict\_data)

print("Series from dictionary:")

print(dict\_series)

print()

import numpy as np

array\_data = np.array([1, 2, 3, 4, 5])

array\_series = pd.Series(array\_data)

print("Series from array:")

print(array\_series)

print()

csv\_series = pd.read\_csv('C:/Users/ompit/Desktop/VII/PP/Labs/sample.csv', header=None, names=['Value'])

print("Series from CSV file:")

print(csv\_series)

print()

data = {'Name': ['Alice', 'Bob', 'Charlie', 'David'],

'Age': [25, 30, 28, 22],

'City': ['New York', 'Los Angeles', 'Chicago', 'Houston']}

df = pd.DataFrame(data)

print("DataFrame from dictionary:")

print(df)

print()

df.to\_excel('people.xlsx', index=False)

excel\_df = pd.read\_excel('people.xlsx')

print("DataFrame from Excel file:")

print(excel\_df)

**Output:**