**Experiment 13**

**Aim:** To study basic operation using Pandas.

**Theory :**

Pandas is a Python library used for working with data sets.It has functions for analyzing, cleaning, exploring, and manipulating data.The name "Pandas" has a reference to both "Panel Data", and "Python Data Analysis" and was created by Wes McKinney in 2008.

## Installation of Pandas

If you have [Python](https://www.w3schools.com/python/default.asp) and [PIP](https://www.w3schools.com/python/pandas/python_pip.asp) already installed on a system, then installation of Pandas is very easy.

Install it using this command:

C:\Users\*Your Name*>pip install pandas

## Import Pandas

## Once Pandas is installed, import it in your applications by adding the import keyword:

import pandas

## What is a Series?

A Pandas Series is like a column in a table.It is a one-dimensional array holding data of any type.

## What is a DataFrame?

A Pandas DataFrame is a 2 dimensional data structure, like a 2 dimensional array, or a table with rows and columns.

**Conclusion:** Thus studied basic operations using pandas.