PANDAS

Pandas is the Software module written in python,Pandas is the open source python library which provide High Performance,Data Annalysis,Data manipulation tool using its porwerful data structure.

Pandas is the most popular python library that is used for data analysis. It provides highly optimized performance with back-end source code is purely written in C or Python.

We can analyze data in pandas with:

1. Series
2. DataFrames

Series:Series is one dimensional(1-D) array defined in pandas that can be used to store any data type.

# Program to create series

import pandas as pd # Import Panda Library

# Create series with Data, and Index

a = pd.Series(Data, index = Index)

Here, Data can be:

1. A Scalar value which can be integerValue, string
2. A Python Dictionary which can be Key, Value pair
3. A Ndarray

DataFrames:DataFrames is two-dimensional(2-D) data structure defined in pandas which consists of rows and columns.

**# Program to Create DataFrame**

**import pandas as pd # Import Library**

**a = pd.DataFrame(Data) # Create DataFrame with Data**

1.One or more dictionaries

2.One or more Series

3.2D-numpy Ndarray