**Experiment No.13**

import pandas as pd

data={"a": [10,20,30,40,50]}

df=pd.DataFrame(data)

data\_mean=df.mean()

print(data\_mean)

data\_median = df.median()

print(data\_median)

data\_mode = df.mode()

print(data\_mode)

data\_std = df.std()

print(data\_std)

data\_varr = df.var()

print(data\_varr)

data\_corr = df.corr()

print(data\_corr)

import numpy as np

array = [99,86,87,88,111,86,103,87,94,78,77,85,86]

x = np.mean(array)

print(x)

x = np.median(array)

print(x)

x = np.mode(array)

print(x)

x = np.std(array)

print(x)

x = np.var(array)

print(x)

x = np.corr(array)

print(x)

**OUTPUT:**

a 30.0

dtype: float64

a 30.0

dtype: float64

a

0 10

1 20

2 30

3 40

4 50

a 15.811388

dtype: float64

a 250.0

dtype: float64

a

a 1.0