**40.How to use statistical functions from python NumPy module?**

**Objective:**

* To perform some statistical operations like mean, median,standard deviation, minimum, maximum and variance using python NumPy module.

**Process:**

* NumPy stands for Numerical Python.
* NumPy having some inbuild methods like **np.mean()**,**np.median()**,**np.std()** and **np.var()** to calculatiing the basic statistics functions.
* We can create N-dimensional array using NumPy module.
* Its majorly for numeric operations.

**Input:**

* Simple array.

**Output:**

* Statistical functions results for given array.

**Source code;**

#import numpy

import numpy as np

#sample array

array = np.array([[3,7,5],[8,4,3],[2,4,9]])

#minimum value

print("Minimum value of array")

print(np.amin(array))

#Maximum value

print("Maximum value of array")

print(np.amax(array))

#calculating mean

print("Mean value of array")

print(np.mean(array))

#calculating median

print("Median value of array")

print(np.median(array))

#calculating standard deviation

print("Standard Deviation value of array")

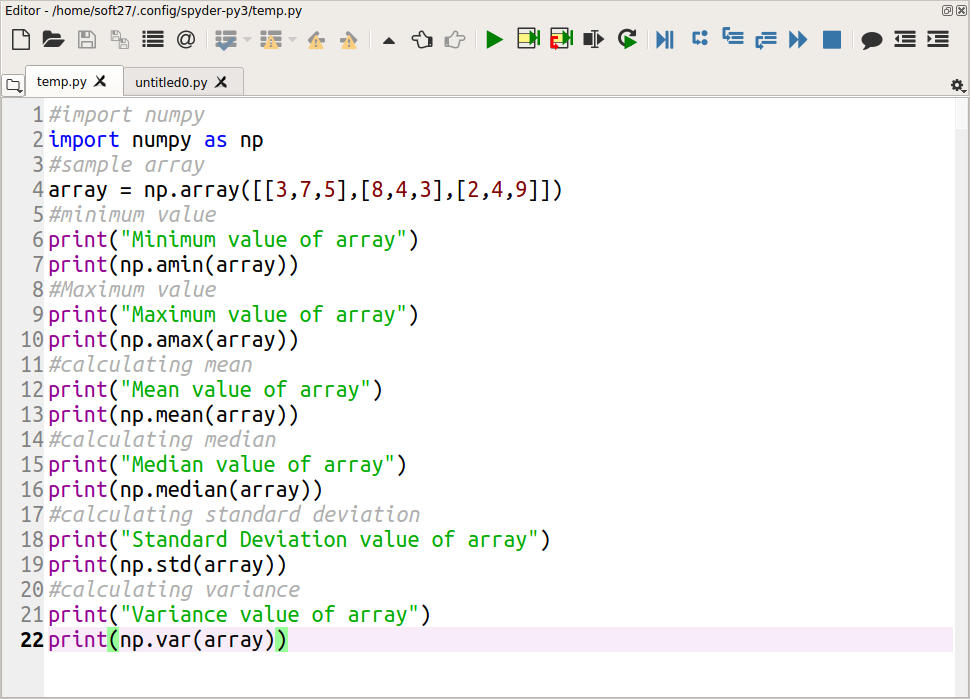
print(np.std(array))

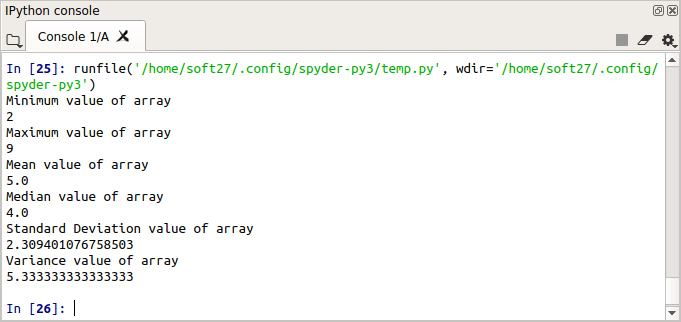
#calculating variance

print("Variance value of array")

print(np.var(array))

**Screen shots:**

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