Aim: To perform a Statistical Description Using numpy and scipy.

In [16]:
```
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#Section : B
#Date :15/2/2024
#Subject : Big Data Analytics
```

In [17]:
```
import numpy as np
x=np.array([1,2,3,4,5,6,7,2,6,2,1,4,2,2,6])
```

In [18]:
```
x
```

Out[18]:
```
array([1, 2, 3, 4, 5, 6, 7, 2, 6, 2, 1, 4, 2, 2, 6])
```

In [19]:
```
print(np.mean(x))
```

```
3.533333333333333
```

In [20]:
```
print(np.median(x))
```

```
3.0
```

In [21]:
```
print(np.mode(x))
```

```
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
~\AppData\Local\Temp/ipykernel_8800/1381575533.py in <module>
----> 1 print(np.mode(x))

~\anaconda3\lib\site-packages\numpy\__init__.py in __getattr__(attr)
    301                 return Tester
    302
--> 303             raise AttributeError("module {!r} has no attribute "
    304                                  "{!r}".format(__name__, attr))
    305

AttributeError: module 'numpy' has no attribute 'mode'
```

In [22]:
```
from scipy import stats
```

In [23]:
```
print(stats.mode(x))
```

```
ModeResult(mode=array([2]), count=array([5]))
```

In [24]:
```
print(np.std(x))
```

```
1.9618585292749546
```

In [25]:
```
print(np.var(x))
```

```
3.8488888888888884
```

In [ ]:
```

```