

### Aim

To use the simple functions available in Statistics and statistics and performs statistical computations in the SCILAB.

### Exercises

To perform the basic statistical functions and calculations in SCILAB, the following functions are used:

`sum()`, `cumsum()`, `mean()`, `stdev()`, `sd=stdev()`, `median()`, `min()`, `max()` and `gsort()`.

```
-->x=[1:5]
```

```
x =
```

```
1.    2.    3.    4.    5.
```

```
-->sum(x)
```

```
ans =
```

```
15.
```

```
-->cumsum(x)
```

```
ans =
```

```
1.    3.    6.    10.   15.
```

```
-->mean(x)
```

```
ans =
```

```
3.
```

```
-->stdev(x)
```

```
ans =
```

```

1.5811388
-->sd=stdev(x)
sd =
1.5811388
-->median(x)
ans =
3.
-->min(x)
ans =
1.
-->max(x)
ans =
5.
-->gsort(x)
ans =
5. 4. 3. 2. 1.

```

S. No	Function	Significance
1	sum()	Addition of the numbers
2	cumsum()	Gives the cumulative sum of the individual numbers
3	mean()	Average of the numbers
4	stdev()	Standard deviation of the numbers
5	median()	Arranges the numbers in increasing order and then displays the middle number
6	min()	Displays the least value
7	max()	Displays the greatest value
8	gsort()	Flips the order of the matrix

## Result

Thus we used SCILAB to understand the basic statistical computations.