

ស្វែងយល់អំពី numpy

# ឧទាហរណ៍

```
import numpy as np
```

```
# array ធម្មតា
```

```
a = [1, 2, 3, 4, 6]
```

```
# array numpy
```

```
a = np.array([1, 2, 3, 4, 5])
```

```
# multi-dimension
```

```
a = np.array([1, 2, 3, 4], [1, 2, 3, 4])
```

# អនុគមន៍ទាក់ទង numpy

- `ndim`                      #ចំនួន dimension
  - `a.dim`
  - សាកល្បងជាមួយ
    - `a[0]`
    - `a[1]`
    - `a[0][:2]`
- `shape`                      #ចំនួន row និង column
  - `a.shape`
- `len`                        #ទំហំ array
  - `len(a)`

# សរសេរកូដ

```
1 import numpy as np
2
3 # array ធម្មតា
4 data = [[1,4,3,7],
5          [2,2,6,3],
6          [1,2,6,3],
7          [5,6,6,4],
8          [1,6,6,7],
9          [4,2,4,7],
10         [5,2,2,7]]
11 # numpy array
12 np_array = np.array([[1,4,3,7],
13                      [2,2,6,3],
14                      [1,2,6,3],
15                      [5,6,6,4],
16                      [1,6,6,7],
17                      [4,2,4,7],
18                      [5,2,2,7]])
19 print(np_array.ndim) # ចំនួន dimension 2
20
21 print(np_array.shape) # ចំនួន row និង column (7, 4)
22
23 print(len(np_array)) # ទំហំ array 7
24
25 print(np_array[0]) # [1 4 3 7]
26
27 print(np_array[0][:2]) # [1 4]
```