```
In [22]:
          1 import numpy as np
```

### Method 1 ¶

```
In [23]:
          1 | Arr = np.arange(12)
          2 Arr
Out[23]: array([ 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11])
In [24]:
          1 import numpy as np
          2 | Arr = np.arange(12)
          3 for val in Arr:
                print(val, end=' ')
```

0 1 2 3 4 5 6 7 8 9 10 11

#### Method 2

```
In [25]:
          1 # we can also iterate the numpay array just like other
          2 # programming languages like C++, C, etc.
```

# **Method 3: Iterating a Two-dimensional Array**

# **Method 4: Iterate over each element on 2D array**

```
1 Arr = np.arange(12).reshape(4,3)
In [44]:
            for row in Arr:
                 for cell in row:
                     print(cell, end='\t')
           4
                 print("\n")
                          2
                 1
         3
                          5
         6
                  7
                          8
         9
                 10
                          11
```

## **Method 5: Using Flatten method**

## **Method 6: Nditer Object**

```
1 Arr = np.arange(12).reshape(4,3)
In [571:
          2 for cell in np.nditer(Arr):
                 print(cell, end=' ')
         0 1 2 3 4 5 6 7 8 9 10 11
In [58]:
          1 # C order iteration
          2 Arr = np.arange(12).reshape(4,3)
          3 for cell in np.nditer(Arr, order='C'):
                 print(cell, end=' ')
         0 1 2 3 4 5 6 7 8 9 10 11
In [59]:
          1 # F order iteration
          2 Arr = np.arange(12).reshape(4,3)
          3 for cell in np.nditer(Arr, order='F'):
                 print(cell, end=' ')
         0 3 6 9 1 4 7 10 2 5 8 11
```

### **Modification to the Numpy array using nditer**