3) Binary operations.

In [2]:
```python
1  import numpy as np
2
3  x = np.array([0, 1, 0, 1], np.uint8)
4  y = np.array([0, 0, 1, 1], np.uint8)
```

1) **bitwise_and.**

Computes the bit-wise AND of two arrays element-wise.

In [5]:
```python
1  print(np.bitwise_and(x, y))
2  print('\n---------------\n')
```

```
[0 0 0 1]

---------------

```

2) **bitwise_or.**

Computes the bit-wise OR of two arrays element-wise.

In [6]:
```python
1  print(np.bitwise_or(x, y))
2  print('\n---------------\n')
```

```
[0 1 1 1]

---------------

```

3) **bitwise_xor.**

Computes the bit-wise XOR of two arrays element-wise.

In [ ]:
```python
1  print(np.bitwise_xor(x, y))
2  print('\n---------------\n')
```

4) **bitwise_not.**

Computes bit-wise inversion, or bit-wise NOT, element-wise.

In [ ]:
```python
1  print(np.bitwise_not(x))
2  print('\n---------------\n')
3
4  print(np.bitwise_not(y))
5  print('\n---------------\n')
```