3) Binary Operations.

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

x = np.array([0, 1, 0, 1], np.uint8)
y = np.array([0, 0, 1, 1], np.uint8)
```

1) **bitwise_and.**

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

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

```
[0 0 0 1]

----------------
```

2) **bitwise_or.**

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

In [3]:
```
print(np.bitwise_or(x, y))
print('\n----------------\n')
```

```
[0 1 1 1]

----------------
```

3) **bitwise_xor.**

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

In [4]:
```
print(np.bitwise_xor(x, y))
print('\n----------------\n')
```

```
[0 1 1 0]

----------------
```

4) **bitwise_not.**

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

In [5]:
```
print(np.bitwise_not(x))
print('\n----------------\n')

print(np.bitwise_not(y))
print('\n----------------\n')
```

```
[255 254 255 254]

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

[255 255 254 254]

----------------
```

In [ ]:
```

```