30 jan 2025

BitwiseOperators

```
In [2]:  3 and 10
```

```
Out[2]:  10
```

```
In [6]:  3 & 10
```

```
Out[6]:  2
```

```
In [4]:  5 or 10
```

```
Out[4]:  5
```

```
In [8]:  5 | 10
```

```
Out[8]:  15
```

```
In [10]:  bin (5 | 10)
```

```
Out[10]:  '0b1111'
```

```
In [14]:  bin (5 or 10)
```

```
Out[14]:  '0b101'
```

```
In [12]:  bin (3 & 10)
```

```
Out[12]:  '0b10'
```

```
In [16]:  bin (3 and 10)
```

```
Out[16]:  '0b1010'
```

```
In [18]:  not 10
```

```
Out[18]:  False
```

```
In [20]:  not 0
```

```
Out[20]:  True
```

```
In [22]:  not 1
```

```
Out[22]:  False
```

```
In [24]:  # LEFT SHIFT - (Loose by two digit)
```

```
In [30]:  10<<2 # 10 = 1010.00 , 10 << 2 =101000.0
```

Out[30]:   40

In [32]:   `bin(10<<2)`

Out[32]:   `'0b101000'`

In [34]:   `# Right SHIFT - (Loose by two digit)`

In [36]:   `10>>2 # 1010.00, 10 >> 2 =10.00`

Out[36]:   2

In [ ]: