



```
In [2]: #Bitwise operators  
25  
bin(25) #binary representation of 25
```

```
Out[2]: '0b11001'
```

```
In [3]: int(0b11001) #converting binary to decimal
```

```
Out[3]: 25
```

```
In [4]: bin(30) #binary representation of 30
```

```
Out[4]: '0b11110'
```

```
In [6]: int(0b11110)
```

```
Out[6]: 30
```

```
In [7]: int(0o31)
```

```
Out[7]: 25
```

```
In [8]: oct(25) #octal representation of 25
```

```
Out[8]: '0o31'
```

```
In [9]: 0xb
```

```
Out[9]: 11
```

```
In [10]: hex(1)
```

```
Out[10]: '0x1'
```

```
In [11]: hex(25)
```

```
Out[11]: '0x19'
```

```
In [ ]: #complement operator  
~12
```

```
Out[ ]: -13
```

```
In [13]: ~46
```

```
Out[13]: -47
```

```
In [15]: 12&13
```

```
Out[15]: 12
```

```
In [16]: 12|13
```

```
Out[16]: 13
```

```
In [17]: 12^13
```

```
Out[17]: 1
```

```
In [18]: 1&0
```

```
Out[18]: 0
```

```
In [19]: 1|0
```

```
Out[19]: 1
```

```
In [ ]: bin(7)
```

```
Out[ ]: '0b111'
```

```
In [21]: 25^30
```

```
Out[21]: 7
```

```
In [23]: print(bin(25))  
          print(bin(30))  
          print(bin(25^30))
```

```
0b11001  
0b11110  
0b111
```

```
In [24]: 10<<1
```

```
Out[24]: 20
```

```
In [25]: 10<<2
```

```
Out[25]: 40
```

```
In [26]: 10>>1
```

```
Out[26]: 5
```

```
In [27]: 10>>2
```

```
Out[27]: 2
```

```
In [28]: 10>>3
```

```
Out[28]: 1
```

In [29]: `20>>4`

Out[29]: 1