# Number Systerm

```
In [1]:   25
```

```
Out[1]:   25
```

```
In [2]:   bin(25)
```

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

```
In [5]:   int(0b11001)
```

```
Out[5]:   25
```

```
In [6]:   bin(7)
```

```
Out[6]:   '0b111'
```

```
In [7]:   oct(25)
```

```
Out[7]:   '0o31'
```

```
In [8]:   hex(25)
```

```
Out[8]:   '0x19'
```

```
In [10]:  0xa
```

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

```
In [11]:  0xb
```

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

# Swap-2-Variable in Python

```
In [12]:  a=5
          b=6
```

```
In [13]:  a=b
          b=a
```

```
In [14]:  print(a)
          print(b)

          6
          6
```

```
In [15]:  a1=7
          b1=8
```

```
In [16]: temp=a1
         a1=b1
         b1=temp
```

```
In [17]: print(a1)
         print(b1)
```

```
8
7
```

```
In [22]: a2=5
         b2=6
```

```
In [23]: a2=a2+b2
         b2=a2-b2
         a2=a2-b2
```

```
In [24]: print(a2)
         print(b2)
```

```
6
5
```

```
In [25]: a2,b2
```

Out[25]: (6, 5)

```
         a2,b2=b2,a2
```

```
In [26]: print(a2)
         print(b2)
```

```
6
5
```

# Compliment

```
In [27]: ~12
```

Out[27]: -13

```
In [28]: ~46
```

Out[28]: -47

```
In [29]: ~13
```

Out[29]: -14

```
In [30]: ~10
```

Out[30]: -11

```
In [36]: # And Operator and OR Operator
```

```
In [32]:  12 & 13
```

```
Out[32]:  12
```

```
In [33]:  12 | 13
```

```
Out[33]:  13
```

```
In [34]:  0 & 1
```

```
Out[34]:  0
```

```
In [35]:  0 | 1
```

```
Out[35]:  1
```

```
In [37]:  35 & 40
```

```
Out[37]:  32
```

```
In [38]:  35|40
```

```
Out[38]:  43
```

```
In [39]:  12^13
```

```
Out[39]:  1
```

# Left Shift Indicator & Right Shift Indicator

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

```
Out[1]:  '0b1010'
```

```
In [2]:  10<<1
```

```
Out[2]:  20
```

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

```
Out[3]:  40
```

```
In [4]:  10<<3
```

```
Out[4]:  80
```

```
In [5]:  10>>1
```

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

```
In [9]:  10>>1
```

```
Out[9]:  5
```

In [ ]: