Number Sysytem(Binary,Octal,Decimal and Hexa Decimal

In [ ]:
```
#Binary Number System
#Base is 2
#o/p will come using 0b
```

In [96]:
```
25
```

Out[96]: 25

In [97]:
```
bin(25)             #LCM of 25
```

Out[97]: '0b11001'

In [98]:
```
bin(30)
```

Out[98]: '0b11110'

In [99]:
```
bin(10)
```

Out[99]: '0b1010'

In [100…
```
bin(1)
```

Out[100… '0b1'

In [105…
```
bin(8)
```

Out[105… '0b1000'

In [ ]:
```
#Octal Number System
# base is 8 and values from 0-7
# o/p will come using 0o
```

In [101…
```
35
```

Out[101… 35

In [102…
```
oct(35)          #lcm with 8
```

Out[102… '0o43'

In [103…
```
oct(59)
```

Out[103… '0o73'

In [108…
```
oct(64)
```

Out[108… '0o100'

In [109…
```
oct(40)
```

Out[109… '0o50'

In [ ]:
```
# Hexa Decimal
# base is 16,values prints(0-9,& a-f)
# o/p shows 0x
```

In [110…
```
hex(30)    # when we do division with 16 remainder is 14 but in hexa decimal "e
```

Out[110… '0x1e'

In [111…
```
hex(25)
```

Out[111… '0x19'

In [ ]:
```
# Decimal Number System
# base is 10,values from 0-9
```

In [ ]:
```
#Swapping
```

In [112…
```
a =5
b =8
```

In [113…
```
a =b
b =a
```

In [114…
```
print(a)
print(b)
```

```
8
8
```

In [117…
```
a =5
b =8
```

In [118…
```
temp =a              # with 3rd variable we can swap
a = b
b = temp
```

In [119…
```
print(a)
print(b)
```

```
8
5
```

In [120…
```
a =5
b =8
```

In [121…
```
a = a + b             #without using 3rd variable swapping is done
b = a - b
a = a - b
```

In [122…
```
print(a)
print(b)
```

```
8
5
```

In [125…
```
a,b = b,a
```

In [126…
```
print(a)
print(b)
```

```
8
5
```

In [ ]:
```

```