21st oct binary number system

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

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

```python
In [3]: 0b11001
```

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

```python
In [4]: bin(10)
```

```
Out[4]: '0b1010'
```

```python
In [5]: bin(30)
```

```
Out[5]: '0b11110'
```

```python
In [7]: int(0b11110)
```

```
Out[7]: 30
```

```python
In [9]: int(0b1110)
```

```
Out[9]: 14
```

```python
In [10]: oct(25)
```

```
Out[10]: '0o31'
```

```python
In [11]: oct(30)
```

```
Out[11]: '0o36'
```

Bitwise operators

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

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

```python
In [13]: 14 & 18
```

```
Out[13]: 2
```

```python
In [14]: 1|0
```

```
Out[14]: 1
```

```python
In [15]: 2^3
```

```
Out[15]: 1
```

```python
In [16]: 1^2
```

Out[16]: 3

In [17]: `25^30`

Out[17]: 7

In [18]: `1^0`

Out[18]: 1

In [19]: `10<<1`

Out[19]: 20

In [20]: `10<<2`

Out[20]: 40

In [21]: `10<<3`

Out[21]: 80

In [22]: `10<<4`

Out[22]: 160

In [23]: `10>>1`

Out[23]: 5

In [24]: `10>>2`

Out[24]: 2

In [25]: `10>>3`

Out[25]: 1

In [26]: `20>>1`

Out[26]: 10

print() function

In [27]:
```python
print(10)
```

```
10
```

In [28]:
```python
print(10,20)
print("hello")
print("world")
```

```
10 20
hello
world
```

```
In [29]: num1=20
         num2=30
         num3=num1+num2
         print(num3)
```

50

```
In [30]: num1=20
         num2=30
         num3=num1+num2
         print('the addition of',num1,'and',num2,'is',num3)
```

the addition of 20 and 30 is 50

Format method

```
In [33]: num1=20
         num2=30
         num3=num1+num2
         print('The addition of {} and {} is = {}'.format(num1,num2,num3))
```

The addition of 20 and 30 is = 50

```
In [35]: num1=20
         num2=30
         num3=40
         num4=num1+num2+num3
         print('The addition of {} and {} and {} is = {}'.format(num1,num2,num3,num4))
```

The addition of 20 and 30 and 40 is = 90

Fstring method

```
In [36]: num1=20
         num2=30
         num3=num1+num2
         print(f'the addition of {num1} and {num2} is {num3}')
```

the addition of 20 and 30 is 50

End Statement

```
In [37]: print("hello",end=' ')
         print("good Morning")
```

hello good Morning

```
In [40]: print("hello",end=' *** ')
         print("good Morning",end=' *** ')
         print("Everyone")
```

hello *** good Morning *** Everyone

Separator

```
In [42]: print("hello","good morning","everyone",sep=' ')
```

hello good morning everyone

```
In [43]: print("hello","good morning","everyone",sep=' *** ')
```

hello *** good morning *** everyone

In [44]:
```python
str="joseph"
city="hyderabad"
age=20
print(f'my name is {str} i live in {city} my age is {age}')
```

my name is joseph i live in hyderabad my age is20

In [ ]: