

```
bin(25)
bin
```

```
<function bin(number, /)>
```

```
oct(25)
```

```
'0o31'
```

```
bin(25)
```

```
'0b11001'
```

```
bin(78)
```

```
'0b1001110'
```

```
oct(65)
```

```
'0o101'
```

```
hex(34)
```

```
Run cell (Ctrl+Enter)
cell executed since last change
```

```
int(0
11:29 AM (0 minutes ago)
executed in 0.023s
```

```
65
```

```
int(021122334)
```

```
File "<ipython-input-8-89861db9da00>", line 1
int(021122334)
    ^
```

**SyntaxError:** leading zeros in decimal integer literals are not permitted; use an 0o prefix for octal integers

Next steps: [Fix error](#)

```
int(11000111000)
```

```
11000111000
```

```
int(11001)
```

```
11001
```

```
bin(25)
```

```
'0b11001'
```

```
int(11001)
```

```
11001
```

```
int(0b11001)
```

```
25
```

```
bin(7)
```

```
'0b111'
```

```
oct(25)
```

```
'0o31'
```

```
int(0o31)
```

```
25
```

```
hex(25)
```

```
'0x19'
```

```
int(0x19)
```

```
25
```

```
hex(16)
```

```
'0x10'
```

```
0xa
```

```
10
```

```
0xb
```

```
11
```

```
0xc
```

```
12
```

```
0xf
```

Run cell (Ctrl+Enter)  
cell executed since last change

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```
a=5
```

```
b=6
```

```
a=b
```

```
b=a
```

```
print(a)
```

```
print(b)
```

```
-----
```

**NameError** Traceback (most recent call last)

<ipython-input-24-981357e7b987> in <cell line: 0>()

----> 1 print(a)

2 print(b)

**NameError**: name 'a' is not defined

Next steps: [Explain error](#)

```
a=5
```

```
b=6
```

```
print(a)
```

```
print(b)
```

```
6
```

```
6
```

```
temp=a
```

```
a=b
```

```
b=temp
```

```
print(a)
```

```
print(b)
```

```
6
```

```
6
```

```
a=5
```

```
b=6
```

```
temp=a
```

```
a=b
```

```
b=temp
```

```
print('value of a ',a)
```

```
print('value of b ',b)
```

```
↵ value of a = 6
   value of b = 5
```

```
a=3
b=9
a=a+b
b=a-b
a=a-b
print('value of a =',a)
print('value of b =',b)
```

```
↵ value of a = 9
   value of b = 3
```

```
a2=6
b2=2
a2=a2 ^ b2
b2=a2 ^ b2
a2=a2 ^ b2
print(a2)
print(b2)
```

```
↵ 2
   6
```

a2, b2 Run cell (Ctrl+Enter)  
cell executed since last change

```
↵ executed by bilkis sayyad
   11:29 AM (0 minutes ago)
   executed in 0.023s
```

```
a2, b2=0, 0
print('value of a2=', a2)
print('value of b2=', b2)
```

```
↵ value of a2= 6
   value of b2 2
```

Bitwise operator:- complement(~), AND(&), OR(|), XOR(^), LEFT SHIFT(<<), RIGHT SHIFT(>>).

~12

```
↵ -13
```

~34

```
↵ -35
```

~78

```
↵ -79
```

~57

```
↵ -58
```

12&13

```
↵ 12
```

12|13

```
↵ 13
```

```
bin(13)
print(bin(35))
print(bin(40))
```

```
↵ 0b100011
   0b101000
```

35&40

```
↵ 32
```

35|40

↔ 43

12^13

↔ 1

34^78

↔ 108

25^30

↔ 7

bin(7)

↔ '0b111'

```
print(bin(25))  
print(bin(30))
```

↔ 0b11001  
0b11110

Run cell (Ctrl+Enter)  
cell executed since last change

10<<1

↔ executed by bilkis sayyad  
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executed in 0.023s

10<<2

↔ 40

10<<3

↔ 80

10>>3

↔ 1

10>>2

↔ 2

10>>4

↔ 0

10<<4

↔ 160

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Run cell (Ctrl+Enter)  
cell executed since last change

executed by bilkis sayyad  
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