Arifmetik ifodalar

```
        3    1  2    4      5   6
a = (c + b**5*3 - 1) / 2 * d
```

Bajarilishi (*ketma-ket*):

1) qavs
2) darajaga ko'tarish **
3) ko'paytirish va bo'lish
4) qo'shish va ayirish

$$a = \frac{c + b^5 \cdot 3 - 1}{2} \cdot d$$

```
a = (c + b*5*3 - 1) \
\
```

Kelgusi satrga o'tish

```
a = (c + b*5*3
           - 1) / 2 * d
```

Qavsdan turib boshqa satrga o'tish

Bo'lish

Klassik bolish:

```
a = 9; b = 6
x = 3 / 4      # = 0.75
x = a / b      # = 1.5
x = -3 / 4     # = -0.75
x = -a / b     # = -1.5
```

Butun sonlarni bo'lish (yaxlitlash «quyi»!):

```
a = 9; b = 6
x = 3 // 4     # = 0
x = a // b     # = 1
x = -3 // 4    # = -1
x = -a // b    # = -2
```

Qoldiq qolish

% – bo'linmadan qoldiq qolish

```
d = 85
b = d // 10
a = d % 10
d = a % b
d = b % a
```

```
a = 15
b = 19
d = a // b
a = a % b
```

Operator // va %

```
a = 1234
d = a % 10; print( d )
a = a // 10
d = a % 10; print( d )
a = a // 10
d = a % 10; print( d )
a = a // 10
d = a % 10; print( d )
a = a // 10 # 0
```

4

3

2

1

Amallarning qisqa yozish usuli

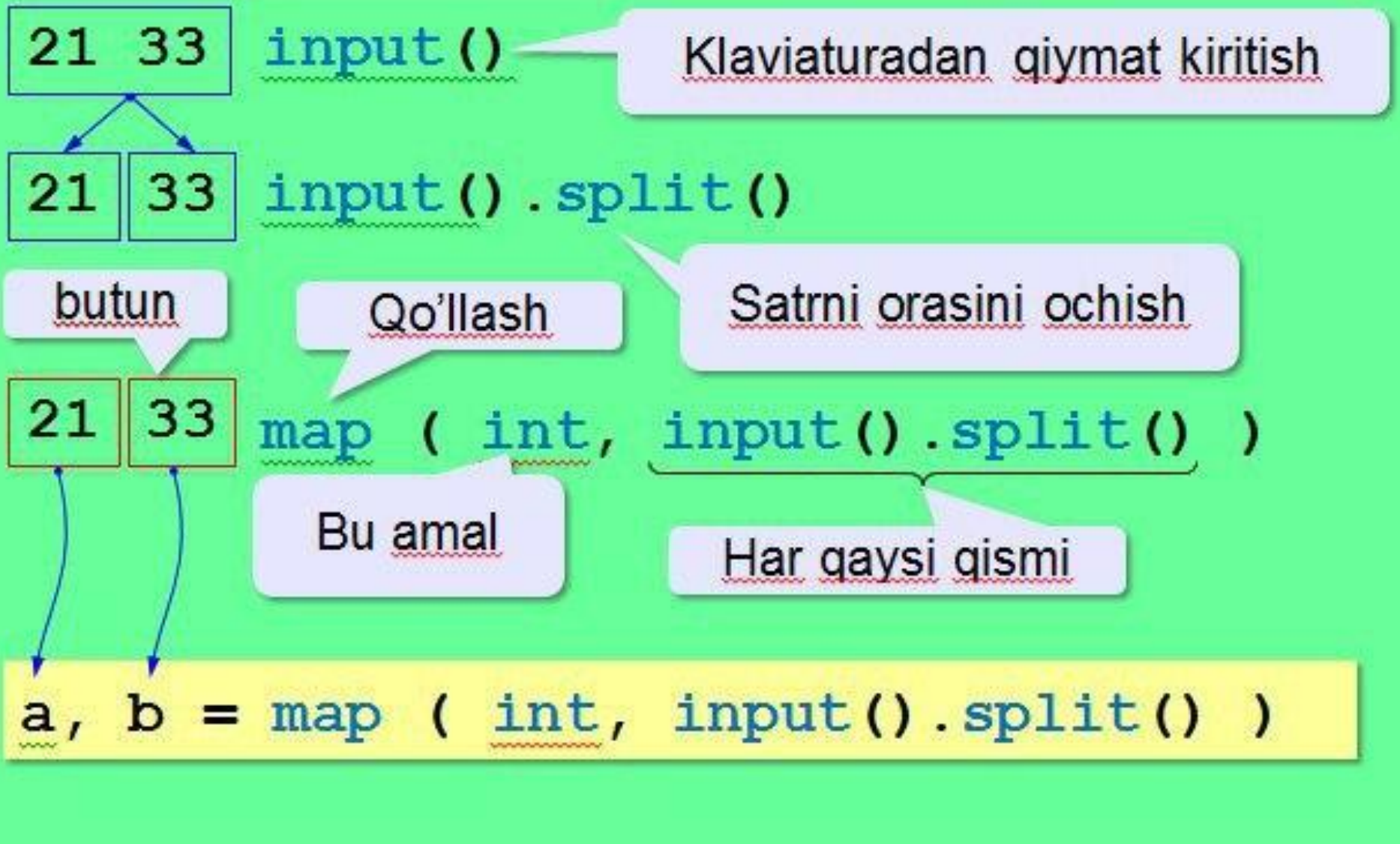
```
a += b   # a = a + b
a -= b   # a = a - b
a *= b   # a = a * b
a /= b   # a = a / b
a //= b  # a = a // b
a %= b   # a = a % b
```

```
a += 1
```

1 ga oshirish

Bir satrda ikkita qiymat kiritish

```
a, b = map ( int, input().split() )
```




```
a, b = map ( int, input().split() )
```

Tasodifiy sonlar generatori

```
import random
```

ingl. *random* – *tasodifiy*

[a,b]: oraliqdagi butin sohlar

```
X = random.randint(1,6)  # псевдо. son
Y = random.randint(1,6)  # endi boshqa son!
```

[0,1): orasidagi generator

```
X = random.random()   # псевдо. son
Y = random.random()   # endi boshqa son!
```

[a, b] (kasr sonlar):

```
X = random.uniform(1.2, 3.5)
Y = random.uniform(1.2, 3.5)
```

Tasodifiy sonlar generatori

```
from random import *
```

Hammasini qo'shish!

ingl. *random* – *tasodifiy*

[a,b]: oraliqdagi butun son

```
X = randint(10,60) # псевдо son
Y = randint(10,60) # Bu endi boshqa son!
```

[0,1): Generatori

```
X = random()   # псевдо son
Y = random()   # Bu endi boshqa son!
```