```
      Uисла

      In [1]: a = intt(input()) b = intt(input()) print(a + b)

      12 13 25

      Строки

      In [4]: c = 'Hello world' print(c(:5]+'1')

      Hellol

      Условия

      In [6]: d = int(input()) if d <= int(input()) if
```

```
import numpy as np
import matplotlib.pyplot as plt
x = np.arange(-4, 4, 0.01)
plt.plot(x, x**2)
plt.plot(x, x**3)
           [<matplotlib.lines.Line2D at 0x7f99cf22d280>]
                60
                40
                20
                 0
              -20
              -40
              -60
                                                                                 ż
                       -4
                                -3
                                          -2
                                                   -1
                                                              ò
                                                                       i
                                                                                          3
                                                                                                    á
In [6]: from random import randint
           values = []
for _ in range(5):
    values.append(randint(0, 50))
colors = ['r', 'g', 'b', 'c', 'm']
labels = ['l', '2', '3', '4', '5']
plt.title('Kpyxox')
            plt.pie(values, colors = colors, labels = labels)
Кружок
                                                                1
                3
```

```
In [1]: import numpy as np
    a = [1, 2, 3]
    b = [0.1, 0.2, 0.3]
    c = ['a', 'b', 'c']
    print(np.array(a))
    print(np.array(b))
    print(np.array(c))

[1 2 3]
    [0.1 0.2 0.3]
    ['a' 'b' 'c']
In []:
```

```
In [1]: import numpy as np
    a = np.array([10, 20, 30, 40])

In [2]: a / 10

Out[2]: array([1., 2., 3., 4.])

In [3]: a * 10

Out[3]: array([100, 200, 300, 400])

In [4]: a - 5

Out[4]: array([ 5, 15, 25, 35])

In [5]: a**3

Out[5]: array([ 1000, 8000, 27000, 64000])

In [6]: a + 40

Out[6]: array([50, 60, 70, 80])
In [ ]: [
```

```
In [1]: import numpy as np a = np.arange(10, 21, 2)

In [2]: a
Out(2]: array([10, 12, 14, 16, 18, 20])

In [3]: b = a.reshape([3, 2]) b
Out(3]: array([10, 12], [14, 16, 18, 20])

In [4]: a[0] = 0 a
Out(4): array([ 0, 12, 14, 16, 18, 20])

In [5]: b
Out(5]: array([ 0, 12, 14, 16, 18, 20])

In [6]: c = a.copy() c
Out(6]: array([ 0, 12, 14, 16, 18, 20])

In [7]: c[0] = 10
Out(7]: array([ 0, 12, 14, 16, 18, 20])

In [8]: a
Out(8]: array([ 0, 12, 14, 16, 18, 20])

In [9]: a.reshape([2, -1])
Out(9]: array([ 0, 12, 14, 16, 18, 20])

In [9]: a.reshape([2, -1])
Out(9]: array([ 0, 12, 14, 16, 18, 20])
```

```
In [1]: import numpy as np
import pandas as pd
from pandas import DataFrame, Series
         obj = Series([3, 6, 9, 12])
obj
         2 9
3 12
dtype: int64
Out[2]: array([ 3, 6, 9, 12])
Out[4]: RangeIndex(start=0, stop=4, step=1)
In [5]: obj2 = Series([203, 235, 6347, 547, 547], index=['first', 'second', 'third', 'forth', 'fifth'])
obj2
Out[5]: first
                    203
235
6347
547
547
          forth
fifth
          dtype: int64
In [7]: obj2[obj2>250]
                  547
547
          forth
         dtype: int64
In [8]: obj2.to_dict()
Out[8]: {'first': 203, 'second': 235, 'third': 6347, 'forth': 547, 'fifth': 547}
In [9]: Series(obj2.to_dict())
         first 203
second 235
third 6347
forth 547
fifth 547
dtype: int64
                       406
470
                      1094
1094
          forth
fifth
          dtype: int64
```