2 задание (1 вариант потому что я Абрамова):

3 задание (1 вар)

```
Ε:\CAΦУ\ЛР5\3.py - Notepad++
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 3 🖶 🗎 🖺 🤚 5 6 6 14 16 16 17 20 cc | ## 🛬 | 🗷 🥞 ⋤ ⋤ 🖺 🚍 🖫 💵 🞉
18.py ☒ ☐ 2.py ☒ ☐ 3.py ☒
         import math
                                                      C:\Windows\py.exe
        \exists def f(x, y): 
   2
                                                      Введите х:
                                                     введите х. 6
Введите у: 6
z1 = -6.290702573174318
z2 = 0.9601702866503659
              z1 = math.sin(x + 1) - y -1.2
   4
              z2 = 2 * x + math.cos(y) - 2
   5
              print("z1 = ", z1)
   6
              print("z2 = ", z2)
   8
         x = int(input("Введите x: "))
   9
         y = int(input("Введите у: "))
  10
         f(x, y)
  11
         i = input()
```

```
Save Run
                                                                  Output
1 import random as rnd
                                                                   [94, 63, 99, 62, 20, 0, 0, 19, 25, 2]
2 - def is_even(a):
                                                                  Чётные числа из первого списка:
3 ⋅ if a % 2 == 0:
                                                                  94
                                                                  62
4
       return True
                                                                  20
5 +
      else:
6
     return False
                                                                  0
                                                                  0
8 11 = []
                                                                  2
9 12 = []
                                                                  [95, 21, 32, 24, 96, 75, 12, 97, 77, 64]
0
                                                                  Нечётные числа из второго списка:
1 → for i in range(10):
                                                                  95
2 l1.append(rnd.randint(0,100))
                                                                  21
3
     12.append(rnd.randint(0,100))
                                                                  75
4 print(l1)
                                                                  97
5 print("Чётные числа из первого списка: ")
                                                                  77
6 - for i in l1:
7 * if is_even(i):
       print(i)
9 print(12)
.0 print("Нечётные числа из второго списка: ")
1 - for i in 12:
if not is_even(i):
          print(i)
4 i = input()
```

```
[] G Save
                                                           Run
                                                                      Output
main.py
1 - def func(a):
                                                                    93 -9
     min = a[0]
                                                                    292 - 56
 2
3 +
       for i in a:
                                                                    === Code Execution Successful ===
4 +
       if i < min:
 5
             min = i
 6
      max = a[0]
7 -
     for i in a:
8 +
          if i > max:
9
               max = i
10
       print(max, min)
11
12 - def func1 (*args):
13
       min = args[0]
14 -
       for i in args:
          if i < min:
               min = i
16
17
      max = args[0]
18 -
     for i in args:
          if i > max:
19 -
20
               max = i
21
       print(max, min)
22
23 lst = [1, 2, 3, 6, 7, 93, -9]
24 func(lst)
25 func1(4, -56, 78, 0, 292)
```

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18.py ⋈
2.py ⋈
3.py ⋈
4.py ⋈
5.py ⋈
7.py ⋈
       def func(n, div = None):
   2
       if div is None:
   3
                 div = n - 1
   4
             while div >= 2:
   5
                 if n % div == 0:
   6
                      print("Число не является простым")
   7
                      return False
   8
                 else:
   9
                      return func(n, div-1)
  10
             else:
  11
                 print("Число являетсяпростым")
  12
  13
         func (101)
                            C:\Windows\py.exe
  14
         func (102)
                            Число являетсяпростым
Число не является простым
  15
  16
  17
  18
         i = input()
```

### 8 задание

```
Е:\САФУ\ЛР5\9.py - Notepad++
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 📑 18.py 🔀 블 2.py 🔀 블 3.py 🔀 블 4.py 🔀 블 5.py 🗷 블 7.py 🔀 블 8.py 🔀 🛁 9.py 🔀
      def capital (lst):
            a = []
                                                   C:\Windows\py.exe
  3
      口
            for i in 1st:
                                                   ['Катя', 'Маша', 'Таня', 'Саша']
                a.append(i.title())
            return a
  6
        lst = ["катя", "маша", "таня", "саша"]
  7
  8
        lst = capital(lst)
  9
        print(lst)
        i = input()
  10
```

```
Е:\САФУ\ЛР5\10.py - Notepad++
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18.py ⋈ 2.py ⋈ 3.py ⋈ 4.py ⋈ 5.py ⋈ 7.py ⋈ 8.py ⋈ 9.py ⋈ 10.py ⋈
        names = ["Маша", "Петя", "Вася"]
   2
   3
        lst = list(map(hash, names))
   4
        print(lst)
                             C:\Windows\py.exe
   6
        i = input()
                            [219300504, 686679561, -2133119015]
   7
   8
   9
```

```
E:\CAФУ\ЛР5\11.py - Notepad++

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