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Кафедра «Системы обработки информации и управления»



**“Разработка интернет-приложений ”**

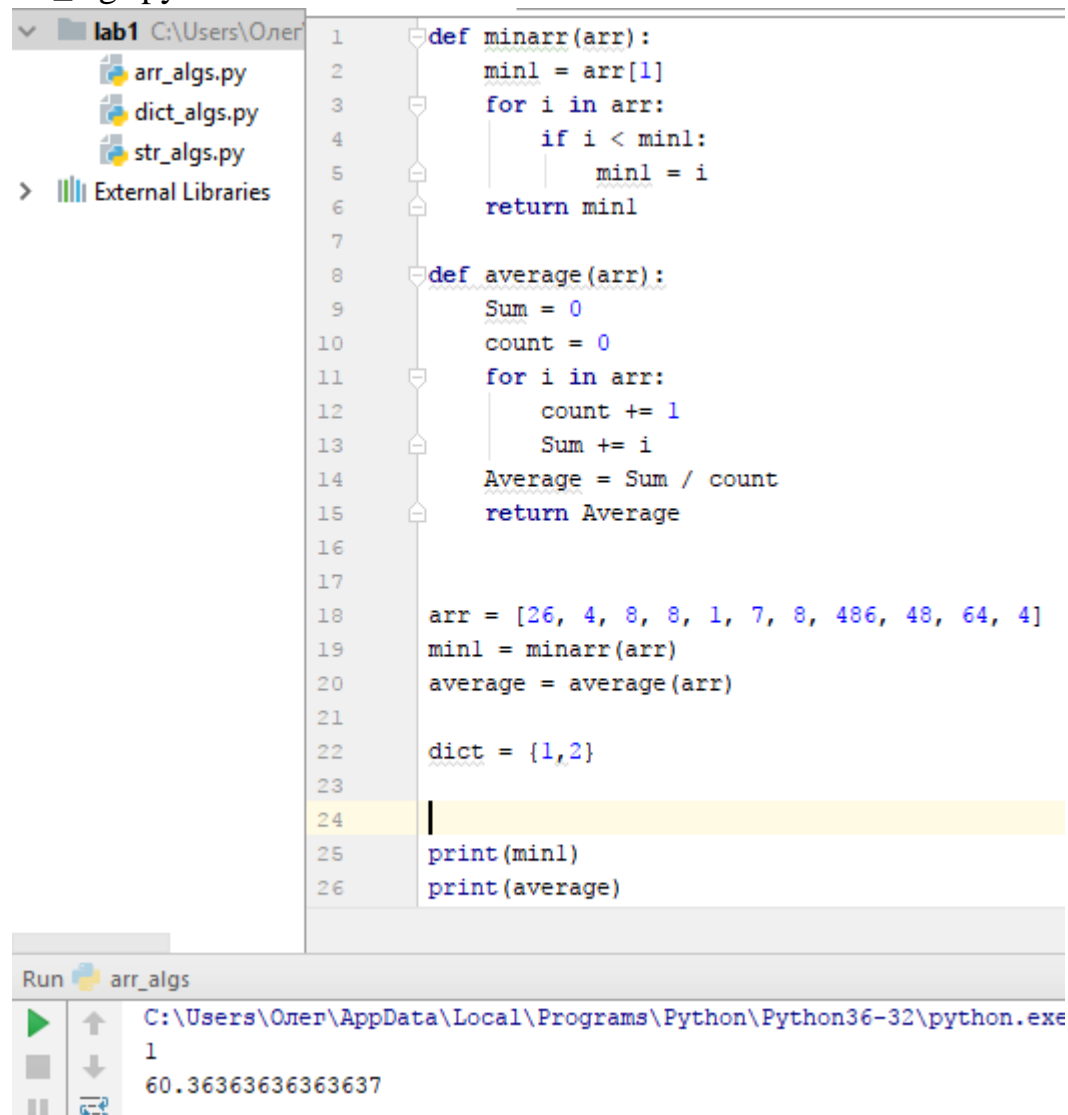
**«Введение в Python»**

**Лабораторная работа № 2**

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## arr\_algs.py



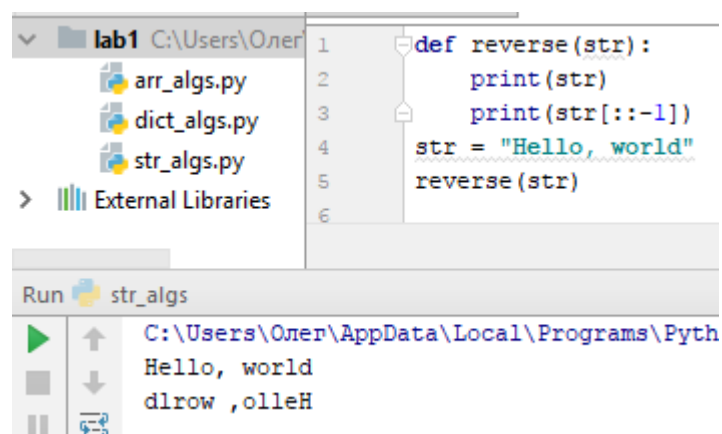
The screenshot shows a code editor with a file explorer on the left and a console at the bottom. The file explorer shows a folder named 'lab1' containing three files: 'arr\_algs.py', 'dict\_algs.py', and 'str\_algs.py'. The code editor displays the following Python code:

```
1 def minarr(arr):
2     minl = arr[1]
3     for i in arr:
4         if i < minl:
5             minl = i
6     return minl
7
8 def average(arr):
9     Sum = 0
10    count = 0
11    for i in arr:
12        count += 1
13        Sum += i
14    Average = Sum / count
15    return Average
16
17
18 arr = [26, 4, 8, 8, 1, 7, 8, 486, 48, 64, 4]
19 minl = minarr(arr)
20 average = average(arr)
21
22 dict = {1,2}
23
24
25 print(minl)
26 print(average)
```

The console output shows the execution of the code:

```
Run arr_algs
C:\Users\Oler\AppData\Local\Programs\Python\Python36-32\python.exe
1
60.36363636363637
```

## Str\_algs.py



The screenshot shows a code editor with a file explorer on the left and a console at the bottom. The file explorer shows a folder named 'lab1' containing three files: 'arr\_algs.py', 'dict\_algs.py', and 'str\_algs.py'. The code editor displays the following Python code:

```
1 def reverse(str):
2     print(str)
3     print(str[::-1])
4     str = "Hello, world"
5     reverse(str)
6
```

The console output shows the execution of the code:

```
Run str_algs
C:\Users\Oler\AppData\Local\Programs\Pyth
Hello, world
dlrow ,olleH
```

## Dict\_algs.py

lab1 C:\Users\Oleg

arr\_algs.py  
dict\_algs.py  
str\_algs.py  
External Libraries

```
1 def children18(emps):  
2     for i in range(0, len(emps)):  
3         for x in range(0, len(emps[i]["children"])):  
4             if emps[i]["children"][x]["age"] > 18:  
5                 print(emps[i]["children"][x]["name"])  
6     ivan = {  
7         "name": "ivan",  
8         "age": 34,  
9         "children": [{  
10            "name": "vasya",  
11            "age": 12,  
12        }, {  
13            "name": "petya",  
14            "age": 10,  
15        }],  
16    }  
17    darja = {  
18        "name": "darja",  
19        "age": 41,  
20        "children": [{  
21            "name": "kirill",  
22            "age": 21,  
23        }, {  
24            "name": "pavel",  
25            "age": 15,  
26        }],  
27    }  
28    emps = [ivan, darja]  
29    children18(emps)
```

children18()

Run dict\_algs

↑

kirill