

Отчет по лабораторной работе РИП  
№2  
«Введение в питон»

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Задания:

### 1) Массивы

**Текст файла:**

```
def find_minimum(arr):
    minimum = arr[0]
    for element in arr:
        if element < minimum:
            minimum = element
    return minimum

print(find_minimum([0,3,-4,5,1]))
```

```
def find_middle(arr):
    summ = 0
    for element in arr:
        summ += element
    count = len(arr)
    return summ / count
print(find_middle([1,2]))
```

### 2) Строки

**Текст файла:**

```
def reverse_string(string):
    new_string = ""
    length = len(string)
    i = 1
    for abc in string:
        new_string += string[length - i]
        i += 1
    return new_string

print(reverse_string('hello, world'))
```

### 3) Словари

**Текст файла:**

```
def emp_with_grown_childrens(arr):
    result = []
    for emp in arr:
        for child in emp['children']:
            if child['age'] > 18:
                result.append(emp['name'])
            break
    return result

ivan = {
    "name" : "ivan",
    "age" : 34,
    "children" : [{
```

```
        "name" : "vasja",
        "age" : 17,
    }, {
        "name" : "petja",
        "age" : 10,
    }],
}
darja = {
    "name" : "darja",
    "age" : 41,
    "children" : [{
        "name" : "kirill",
        "age" : 21,
    }, {
        "name" : "pavel",
        "age" : 15,
    }],
}
emps = [ivan, darja]

print(emp_with_grown_childrens(emps))
```

Результат:

```
ksenobait09@ksenobait09-Aspire-V3-572G:~/Study/Python$ python dict_algs.py
['darja']
ksenobait09@ksenobait09-Aspire-V3-572G:~/Study/Python$ python arr_algs.py
-4
1.5
ksenobait09@ksenobait09-Aspire-V3-572G:~/Study/Python$ python str_algs.py
dlrow ,olleh
```