

Лабораторная работа 5. Задачи.

Генераторы. Менеджеры контекста.

Комплект 1: Итераторы. Генераторы.

1.1

<https://replit.com/@diamorozov/lab-5-11>

1.2

<https://replit.com/@diamorozov/lab-5-12>

1.3

<https://replit.com/@diamorozov/lab-5-13>

1.4

<https://replit.com/@diamorozov/lab-5-14>

Комплект 2: Менеджеры контекста.

2.1

<https://replit.com/@diamorozov/lab-5-21>

2.2

<https://replit.com/@diamorozov/lab-5-22>

2.3

```
test> use admin
switched to db admin
admin> db.createUser({ user: "myUserAdmin", pwd: "abc123", roles: [ { role: "userAdminAnyDatabase", db: "admin" }, "readWriteAnyDatabase" ] })db.createUser({ user: "myUserAdmin", pwd: "abc123", roles: [ { role: "userAdminAnyDatabase", db: "admin" }, "readWriteAnyDatabase" ] })
Uncaught:
SyntaxError: Missing semicolon. (1:135)

> 1 | db.createUser({ user: "myUserAdmin", pwd: "abc123", roles: [ { role: "userAdminAnyDatabase", db: "admin" }, "readWriteAnyDatabase" ] })db.createUser({ user: "myUserAdmin", pwd: "abc123", roles: [ { role: "userAdminAnyDatabase", db: "admin" }, "readWriteAnyDatabase" ] })
    |                                                                                                                                            ^
    2 |

admin> db.createUser({ user: "myUserAdmin", pwd: "abc123", roles: [ { role: "userAdminAnyDatabase", db: "admin" }, "readWriteAnyDatabase" ] })
{ ok: 1 }
admin> use myshinynewbd
switched to db myshinynewbd
myshinynewbd> db.user.insert({name: "Ada Lovelace", age: 205})
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('657da033e9c0ce8247096741') }
}
myshinynewbd>
```

```

1 from pymongo import MongoClient
2
3
4 1 usage
5 class MongoDBContextManager:
6     def __init__(self, db_name, user, password):
7         self.db_name = db_name
8         self.client = MongoClient(username=user, password=password)
9         self.db = self.client[self.db_name]
10
11     def __enter__(self):
12         return self.db
13
14     def __exit__(self, exc_type, exc_value, exc_traceback):
15         self.client.close()
16
17 # Используйте менеджер контекста для подключения к MongoDB и поиска записи
18 with MongoDBContextManager(db_name='myshinynewbd', user='myUserAdmin', password='abc123') as db:
19     user_collection = db['user']
20     user_record = user_collection.find({'age': 205})
21     for record in user_record:
22         print(record)
23

```

Run  mongo x



```

↑ "C:\Python 3.12\python.exe" C:\Users\diamo\PycharmProjects\pythonProject9\mongo.py
↓ {'_id': ObjectId('657da033e9c0ce8247096741'), 'name': 'Ada Lovelace', 'age': 205}

```



Process finished with exit code 0