

1.Establishing Connection a DB using pymongo

```
db.py > ...
1 import pymongo
2
3 client = pymongo.MongoClient("mongodb://localhost:27017/")
4
5 database_list = client.list_database_names()
6 print("Available databases:", database_list)
7
8
9 |
```

PROBLEMS **OUTPUT** DEBUG CONSOLE TERMINAL PORTS Code

[Running] python -u "c:\Users\rahul\Desktop\NoSql\db.py"

Available databases: ['Hotel', 'University', 'admin', 'assignment-noSQL', 'config', 'local', 'local_library', 'my_database', 'test']

2.Create Employee Database (Pymongo) (i) & (ii)

```
db.py > ...
1 import pymongo
2
3 # Connect to the MongoDB server
4 client = pymongo.MongoClient("mongodb://localhost:27017/")
5
6 #database name
7 database_name = "Employee"
8
9 db = client[database_name]
10
11 employee_collection = db["employees"]
12
13 employees_data = [
14     {
15         "name": "Rajesh Sharma",
16         "age": 28,
17         "position": "Software Developer",
18         "department": "IT",
19         "salary": 600000,
20         "city": "Mumbai",
21         "state": "Maharashtra",
22     },
23     {
24         "name": "Priya Patel",
25         "age": 24,
26         "position": "Data Analyst",
27         "department": "Analytics",
28         "salary": 500000,
29         "city": "Bengaluru",
30         "state": "Karnataka",
31     },
32     {
33         "name": "Amit Singh",
34         "age": 32,
35         "position": "Project Manager",
36         "department": "IT",
37         "salary": 800000,
38         "city": "Pune",
39         "state": "Maharashtra",
40     },
41 ]
```

```

31     },
32     {
33         "name": "Amit Singh",
34         "age": 32,
35         "position": "Project Manager",
36         "department": "IT",
37         "salary": 800000,
38         "city": "Delhi",
39         "state": "Delhi",
40     },
41     {
42         "name": "Neha Gupta",
43         "age": 26,
44         "position": "UI/UX Designer",
45         "department": "Design",
46         "salary": 550000,
47         "city": "Pune",
48         "state": "Maharashtra",
49     },
50     {
51         "name": "Sandeep Kumar",
52         "age": 30,
53         "position": "Database Administrator",
54         "department": "IT",
55         "salary": 700000,
56         "city": "Hyderabad",
57         "state": "Telangana",
58     },
59     {
60         "name": "Anjali Verma",
61         "age": 29,
62         "position": "Software Engineer",
63         "department": "IT",
64         "salary": 650000,
65         "city": "Chennai",
66         "state": "Tamil Nadu",
67     },

```

```

        "department": "IT",
        "salary": 650000,
        "city": "Chennai",
        "state": "Tamil Nadu",
    },
    {
        "name": "Rahul Sharma",
        "age": 35,
        "position": "HR Manager",
        "department": "Human Resources",
        "salary": 750000,
        "city": "Kolkata",
        "state": "West Bengal",
    },
]

# Insert the Indian-based employee documents into the collection
employee_collection.insert_many(employees_data)

# Check the number of documents in the collection
num_documents = employee_collection.count_documents({})
print(f"No of Databases : {client.list_database_names()} , Number of documents in 'employees' collection: {num_documents}")

```

```

[Running] python -u "c:\Users\rahul\Desktop\NoSql\db.py"
No of Databases : ['Employee', 'Hotel', 'University', 'admin', 'assignment-nosql', 'config', 'local', 'local_library', 'my_database', 'test'] , Number of
documents in 'employees' collection: 7

```

iii.

```
db.py > ...
1 import pymongo
2 client = pymongo.MongoClient("mongodb://localhost:27017/")
3 database_name = "Employee"
4 db = client[database_name]
5 employee_collection = db["employees"]
6 all_employees = employee_collection.find()
7 |
8 for employee in all_employees:
9 |     print(employee)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Code

[Running] python -u "c:\Users\rahul\Desktop\NoSql\db.py"

```
{'_id': ObjectId('65229a8cb9fa5cef0e6687ba'), 'name': 'Rajesh Sharma', 'age': 28, 'position': 'Software Developer', 'department': 'IT', 'salary': 600000, 'city': 'Mumbai', 'state': 'Maharashtra'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687bb'), 'name': 'Priya Patel', 'age': 24, 'position': 'Data Analyst', 'department': 'Analytics', 'salary': 500000, 'city': 'Bengaluru', 'state': 'Karnataka'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687bc'), 'name': 'Amit Singh', 'age': 32, 'position': 'Project Manager', 'department': 'IT', 'salary': 800000, 'city': 'Delhi', 'state': 'Delhi'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687bd'), 'name': 'Neha Gupta', 'age': 26, 'position': 'UI/UX Designer', 'department': 'Design', 'salary': 550000, 'city': 'Pune', 'state': 'Maharashtra'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687be'), 'name': 'Sandeep Kumar', 'age': 30, 'position': 'Database Administrator', 'department': 'IT', 'salary': 700000, 'city': 'Hyderabad', 'state': 'Telangana'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687bf'), 'name': 'Anjali Verma', 'age': 29, 'position': 'Software Engineer', 'department': 'IT', 'salary': 650000, 'city': 'Chennai', 'state': 'Tamil Nadu'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687c0'), 'name': 'Rahul Sharma', 'age': 35, 'position': 'HR Manager', 'department': 'Human Resources', 'salary': 750000, 'city': 'Kolkata', 'state': 'West Bengal'}
```

iv.

```
1 import pymongo
2 client = pymongo.MongoClient("mongodb://localhost:27017/")
3 database_name = "Employee"
4
5 db = client[database_name]
6 employee_collection = db["employees"]
7
8 result = employee_collection.find_one({"name": "Rajesh Sharma" })
9
10 if result:
11 |     print("Found employee:")
12 |     print(result)
13 else:
14 |     print("No employee matching the condition found.")
15
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Code

[Running] python -u "c:\Users\rahul\Desktop\NoSql\db.py"

Found employee:

```
{'_id': ObjectId('65229a8cb9fa5cef0e6687ba'), 'name': 'Rajesh Sharma', 'age': 28, 'position': 'Software Developer', 'department': 'IT', 'salary': 600000, 'city': 'Mumbai', 'state': 'Maharashtra'}
```

v.)

```
1 import pymongo
2
3 client = pymongo.MongoClient("mongodb://localhost:27017/")
4
5 database_name = "Employee"
6
7 db = client[database_name]
8
9 employee_collection = db["employees"]
10
11 limited_employees = employee_collection.find().limit(2)
12
13 for employee in limited_employees:
14     print(employee)
15
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Code

[Running] python -u "c:\Users\rahul\Desktop\NoSql\db.py"

```
{'_id': ObjectId('65229a8cb9fa5cef0e6687ba'), 'name': 'Rajesh Sharma', 'age': 28, 'position': 'Software Developer', 'department': 'IT', 'salary': 600000, 'city': 'Mumbai', 'state': 'Maharashtra'}
```

```
{'_id': ObjectId('65229a8cb9fa5cef0e6687bb'), 'name': 'Priya Patel', 'age': 24, 'position': 'Data Analyst', 'department': 'Analytics', 'salary': 500000, 'city': 'Bengaluru', 'state': 'Karnataka'}
```

vi)

```
1 import pymongo
2
3 client = pymongo.MongoClient("mongodb://localhost:27017/")
4
5 database_name = "Employee"
6 db = client[database_name]
7
8 employee_collection = db["employees"]
9 limited_employees = employee_collection.find().skip(4).limit(2)
10
11 for employee in limited_employees:
12     print(employee)
13
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Code

[Running] python -u "c:\Users\rahul\Desktop\NoSql\db.py"

```
{'_id': ObjectId('65229a8cb9fa5cef0e6687be'), 'name': 'Sandeep Kumar', 'age': 30, 'position': 'Database Administrator', 'department': 'IT', 'salary': 700000, 'city': 'Hyderabad', 'state': 'Telangana'}
```

```
{'_id': ObjectId('65229a8cb9fa5cef0e6687bf'), 'name': 'Anjali Verma', 'age': 29, 'position': 'Software Engineer', 'department': 'IT', 'salary': 650000, 'city': 'Chennai', 'state': 'Tamil Nadu'}
```

vii)

```
1 import pymongo
2 client = pymongo.MongoClient("mongodb://localhost:27017/")
3 database_name = "Employee"
4 db = client[database_name]
5 sorted_employees = db["employees"].find().sort("age", pymongo.ASCENDING)
6 for employee in sorted_employees:
7     print(employee)
8
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Code

[Running] python -u "c:\Users\rahul\Desktop\NoSql\db.py"

```
{'_id': ObjectId('65229a8cb9fa5cef0e6687bb'), 'name': 'Priya Patel', 'age': 24, 'position': 'Data Analyst', 'department': 'Analytics', 'salary': 500000, 'city': 'Bengaluru', 'state': 'Karnataka'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687bd'), 'name': 'Neha Gupta', 'age': 26, 'position': 'UI/UX Designer', 'department': 'Design', 'salary': 550000, 'city': 'Pune', 'state': 'Maharashtra'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687ba'), 'name': 'Rajesh Sharma', 'age': 28, 'position': 'Software Developer', 'department': 'IT', 'salary': 600000, 'city': 'Mumbai', 'state': 'Maharashtra'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687bf'), 'name': 'Anjali Verma', 'age': 29, 'position': 'Software Engineer', 'department': 'IT', 'salary': 650000, 'city': 'Chennai', 'state': 'Tamil Nadu'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687be'), 'name': 'Sandeep Kumar', 'age': 30, 'position': 'Database Administrator', 'department': 'IT', 'salary': 700000, 'city': 'Hyderabad', 'state': 'Telangana'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687bc'), 'name': 'Amit Singh', 'age': 32, 'position': 'Project Manager', 'department': 'IT', 'salary': 800000, 'city': 'Delhi', 'state': 'Delhi'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687c0'), 'name': 'Rahul Sharma', 'age': 35, 'position': 'HR Manager', 'department': 'Human Resources', 'salary': 750000, 'city': 'Kolkata', 'state': 'West Bengal'}
```

viii)

```
1 import pymongo
2
3 client = pymongo.MongoClient("mongodb://localhost:27017/")
4 database_name = "Employee"
5 db = client[database_name]
6
7 employee_collection = db["employees"]
8 condition = {"department": "IT"}
9 employees_in_it = employee_collection.find(condition)
10 for employee in employees_in_it:
11     print(employee)
12
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Code

[Running] python -u "c:\Users\rahul\Desktop\NoSql\db.py"

```
{'_id': ObjectId('65229a8cb9fa5cef0e6687ba'), 'name': 'Rajesh Sharma', 'age': 28, 'position': 'Software Developer', 'department': 'IT', 'salary': 600000, 'city': 'Mumbai', 'state': 'Maharashtra'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687bc'), 'name': 'Amit Singh', 'age': 32, 'position': 'Project Manager', 'department': 'IT', 'salary': 800000, 'city': 'Delhi', 'state': 'Delhi'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687be'), 'name': 'Sandeep Kumar', 'age': 30, 'position': 'Database Administrator', 'department': 'IT', 'salary': 700000, 'city': 'Hyderabad', 'state': 'Telangana'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687bf'), 'name': 'Anjali Verma', 'age': 29, 'position': 'Software Engineer', 'department': 'IT', 'salary': 650000, 'city': 'Chennai', 'state': 'Tamil Nadu'}
```

ix)

```
db.py > ...
1 import pymongo
2 client = pymongo.MongoClient("mongodb://localhost:27017/")
3 database_name = "Employee"
4 db = client[database_name]
5 employee_collection = db["employees"]
6 condition = {"name": "Rajesh Sharma"}
7 new_employee_data = {
8     "name": "Rajesh Sharma",
9     "age": 29,
10    "position": "Software Developer Manager ",
11    "department": "IT",
12    "salary": 1200000,
13    "city": "Mumbai",
14    "state": "Maharashtra",
15 }
16
17 print('before :', employee_collection.find_one(condition))
18 |
19 result = employee_collection.replace_one(condition, new_employee_data)
20
21 print('after :', employee_collection.find_one(condition))
22
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

[Running] python -u "c:\Users\rahul\Desktop\NoSql\db.py"

before : {'_id': ObjectId('65229a8cb9fa5cef0e6687ba'), 'name': 'Rajesh Sharma', 'age': 29, 'position': 'Senior Software Developer', 'department': 'IT', 'salary': 700000, 'city': 'Mumbai', 'state': 'Maharashtra'}

after : {'_id': ObjectId('65229a8cb9fa5cef0e6687ba'), 'name': 'Rajesh Sharma', 'age': 29, 'position': 'Software Developer Manager ', 'department': 'IT', 'salary': 1200000, 'city': 'Mumbai', 'state': 'Maharashtra'}

x)

OR

```
1 import pymongo
2 client = pymongo.MongoClient("mongodb://localhost:27017/")
3 database_name = "Employee"
4 db = client[database_name]
5 employee_collection = db["employees"]
6 condition = {
7     "$or": [
8         {"department": "IT"},
9         {"department": "Analytics"}
10    ]
11 }
12 qualified_employees = employee_collection.find(condition)
13 for employee in qualified_employees:
14     print(employee)
15
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

[Running] python -u "c:\Users\rahul\Desktop\NoSql\db.py"

{'_id': ObjectId('65229a8cb9fa5cef0e6687ba'), 'name': 'Rajesh Sharma', 'age': 29, 'position': 'Software Developer Manager ', 'department': 'IT', 'salary': 1200000, 'city': 'Mumbai', 'state': 'Maharashtra'}

{'_id': ObjectId('65229a8cb9fa5cef0e6687bb'), 'name': 'Priya Patel', 'age': 24, 'position': 'Data Analyst', 'department': 'Analytics', 'salary': 500000, 'city': 'Bengaluru', 'state': 'Karnataka'}

{'_id': ObjectId('65229a8cb9fa5cef0e6687bc'), 'name': 'Amit Singh', 'age': 32, 'position': 'Project Manager', 'department': 'IT', 'salary': 800000, 'city': 'Delhi', 'state': 'Delhi'}

{'_id': ObjectId('65229a8cb9fa5cef0e6687be'), 'name': 'Sandeep Kumar', 'age': 30, 'position': 'Database Administrator', 'department': 'IT', 'salary': 700000, 'city': 'Hyderabad', 'state': 'Telangana'}

{'_id': ObjectId('65229a8cb9fa5cef0e6687bf'), 'name': 'Anjali Verma', 'age': 29, 'position': 'Software Engineer', 'department': 'IT', 'salary': 650000, 'city': 'Chennai', 'state': 'Tamil Nadu'}

AND.

```
1 import pymongo
2 client = pymongo.MongoClient("mongodb://localhost:27017/")
3 database_name = "Employee"
4 db = client[database_name]
5 employee_collection = db["employees"]
6 condition = {
7     "$and": [
8         {"department": "IT"},
9         {"salary": {"$gte": 600000}}
10    ]
11 }
12 qualified_employees = employee_collection.find(condition)
13 for employee in qualified_employees:
14     print(employee)
15
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

[Running] python -u "c:\Users\rahul\Desktop\NoSql\db.py"

```
{'_id': ObjectId('65229a8cb9fa5cef0e6687ba'), 'name': 'Rajesh Sharma', 'age': 29, 'position': 'Software Developer Manager ', 'department': 'IT', 'salary': 1200000, 'city': 'Mumbai', 'state': 'Maharashtra'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687bc'), 'name': 'Amit Singh', 'age': 32, 'position': 'Project Manager', 'department': 'IT', 'salary': 800000, 'city': 'Delhi', 'state': 'Delhi'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687be'), 'name': 'Sandeep Kumar', 'age': 30, 'position': 'Database Administrator', 'department': 'IT', 'salary': 700000, 'city': 'Hyderabad', 'state': 'Telangana'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687bf'), 'name': 'Anjali Verma', 'age': 29, 'position': 'Software Engineer', 'department': 'IT', 'salary': 650000, 'city': 'Chennai', 'state': 'Tamil Nadu'}
```

LT,LTE.

```
db.py > ...
1 import pymongo
2 client = pymongo.MongoClient("mongodb://localhost:27017/")
3 database_name = "Employee"
4 db = client[database_name]
5 employee_collection = db["employees"]
6 condition1 = {"age": {"$lt": 30}}
7 condition2 = {"age": {"$lte": 30}}
8 qualified_employees1 = employee_collection.find(condition1)
9 qualified_employees2 = employee_collection.find(condition2)
10
11 for employee in qualified_employees1:
12     print('lt', employee)
13
14 for employee in qualified_employees2:
15     print('lte', employee)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

[Running] python -u "c:\Users\rahul\Desktop\NoSql\db.py"

```
lt {'_id': ObjectId('65229a8cb9fa5cef0e6687ba'), 'name': 'Rajesh Sharma', 'age': 29, 'position': 'Software Developer Manager ', 'department': 'IT', 'salary': 1200000, 'city': 'Mumbai', 'state': 'Maharashtra'}
lt {'_id': ObjectId('65229a8cb9fa5cef0e6687bb'), 'name': 'Priya Patel', 'age': 24, 'position': 'Data Analyst', 'department': 'Analytics', 'salary': 500000, 'city': 'Bengaluru', 'state': 'Karnataka'}
lt {'_id': ObjectId('65229a8cb9fa5cef0e6687bd'), 'name': 'Neha Gupta', 'age': 26, 'position': 'UI/UX Designer', 'department': 'Design', 'salary': 550000, 'city': 'Pune', 'state': 'Maharashtra'}
lt {'_id': ObjectId('65229a8cb9fa5cef0e6687bf'), 'name': 'Anjali Verma', 'age': 29, 'position': 'Software Engineer', 'department': 'IT', 'salary': 650000, 'city': 'Chennai', 'state': 'Tamil Nadu'}
lte {'_id': ObjectId('65229a8cb9fa5cef0e6687ba'), 'name': 'Rajesh Sharma', 'age': 29, 'position': 'Software Developer Manager ', 'department': 'IT', 'salary': 1200000, 'city': 'Mumbai', 'state': 'Maharashtra'}
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lte {'_id': ObjectId('65229a8cb9fa5cef0e6687bd'), 'name': 'Neha Gupta', 'age': 26, 'position': 'UI/UX Designer', 'department': 'Design', 'salary': 550000, 'city': 'Pune', 'state': 'Maharashtra'}
lte {'_id': ObjectId('65229a8cb9fa5cef0e6687be'), 'name': 'Sandeep Kumar', 'age': 30, 'position': 'Database Administrator', 'department': 'IT', 'salary': 700000, 'city': 'Hyderabad', 'state': 'Telangana'}
lte {'_id': ObjectId('65229a8cb9fa5cef0e6687bf'), 'name': 'Anjali Verma', 'age': 29, 'position': 'Software Engineer', 'department': 'IT', 'salary': 650000, 'city': 'Chennai', 'state': 'Tamil Nadu'}
```

IN

```
db.py > ...
1 import pymongo
2 client = pymongo.MongoClient("mongodb://localhost:27017/")
3 database_name = "Employee"
4 db = client[database_name]
5 employee_collection = db["employees"]
6 condition = {"city": {"$in": ["Pune", 'Mumbai']}}
7
8 qualified_employees = employee_collection.find(condition);
9
10 for employee in qualified_employees:
11     print( employee)
12
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

[Running] python -u "c:\Users\rahul\Desktop\NoSql\db.py"

```
{'_id': ObjectId('65229a8cb9fa5cef0e6687ba'), 'name': 'Rajesh Sharma', 'age': 29, 'position': 'Software Developer Manager ', 'department': 'IT', 'salary': 1200000, 'city': 'Mumbai', 'state': 'Maharashtra'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687bd'), 'name': 'Neha Gupta', 'age': 26, 'position': 'UI/UX Designer', 'department': 'Design', 'salary': 550000, 'city': 'Pune', 'state': 'Maharashtra'}
```

ALL

```
1 import pymongo
2 client = pymongo.MongoClient("mongodb://localhost:27017/")
3 database_name = "Employee"
4 db = client[database_name]
5 employee_collection = db["employees"]
6 condition = {"position": {"$all": ["Software Developer", "Project Manager"]}}
7
8
9 qualified_employees = employee_collection.find(condition);
10
11 for employee in qualified_employees:
12     print( employee)
13
```

```
import pymongo
client = pymongo.MongoClient("mongodb://localhost:27017/")
database_name = "Employee"
db = client[database_name]
employee_collection = db["employees"]
condition = [{"state": {"$exists": True}}]

qualified_employees = employee_collection.find(condition);

for employee in qualified_employees:
    print( employee)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

[Running] python -u "c:\Users\rahul\Desktop\NoSql\db.py"

```
{'_id': ObjectId('65229a8cb9fa5cef0e6687ba'), 'name': 'Rajesh Sharma', 'age': 29, 'position': 'Software Developer Manager ', 'department': 'IT', 'salary': 1200000, 'city': 'Mumbai', 'state': 'Maharashtra'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687bb'), 'name': 'Priya Patel', 'age': 24, 'position': 'Data Analyst', 'department': 'Analytics', 'salary': 500000, 'city': 'Bengaluru', 'state': 'Karnataka'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687bc'), 'name': 'Amit Singh', 'age': 32, 'position': 'Project Manager', 'department': 'IT', 'salary': 800000, 'city': 'Delhi', 'state': 'Delhi'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687bd'), 'name': 'Neha Gupta', 'age': 26, 'position': 'UI/UX Designer', 'department': 'Design', 'salary': 550000, 'city': 'Pune', 'state': 'Maharashtra'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687be'), 'name': 'Sandeep Kumar', 'age': 30, 'position': 'Database Administrator', 'department': 'IT', 'salary': 700000, 'city': 'Hyderabad', 'state': 'Telangana'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687bf'), 'name': 'Anjali Verma', 'age': 29, 'position': 'Software Engineer', 'department': 'IT', 'salary': 650000, 'city': 'Chennai', 'state': 'Tamil Nadu'}
{'_id': ObjectId('65229a8cb9fa5cef0e6687c0'), 'name': 'Rahul Sharma', 'age': 35, 'position': 'HR Manager', 'department': 'Human Resources', 'salary': 750000, 'city': 'Kolkata', 'state': 'West Bengal'}
```