Задание 1.1

Добавление значений:

```
(venv) eugene@eugene:~/Documents/test_tasks/task_1/task_1$ python3 manual_work.py --key 1 --value 14
(venv) eugene@eugene:~/Documents/test_tasks/task_1/task_1$ python3 manual_work.py --key 1 --value 15
(venv) eugene@eugene:~/Documents/test_tasks/task_1/task_1$ python3 manual_work.py --key 1 --value 16
(venv) eugene@eugene:~/Documents/test_tasks/task_1/task_1$ python3 manual_work.py --key 2 --value 'Hello world!'
```

Данные в файле:

Получение по ключу:

```
• (venv) eugene@eugene:~/Documents/test_tasks/task_1/task_1$ python3 manual_work.py --key 14, 15, 16
```

Несуществующий ключ:

```
(venv) eugene@eugene:~/Documents/test_tasks/task_1/task_1$ python3 manual_work.py --key 5
'[ERROR] No such key in DB!!!'
```

Задание 1.2

Запуск контейнера:

```
^C^C(venv) eugene@eugene:~/Documents/test_tasks/task_l/task_l$ docker run --rm -p 5000:9999 api

* Serving Flask app 'api'

* Debug mode: off

WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.

* Running on all addresses (0.0.0.0)

* Running on http://127.0.0.1:9999

* Running on http://172.17.0.2:9999

Press CTRL+C to quit
```

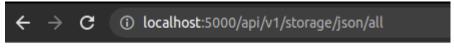
POST-запрос:

```
Succesfully added!eugene@eugene:~$ curl -i -H "Content-Type: application/json" - X POST -d '{"1": "Moscow"}' http://localhost:5000/api/v1/storage/json/write HTTP/1.1 200 OK
Server: Werkzeug/2.2.3 Python/3.9.16
Date: Fri, 31 Mar 2023 22:11:43 GMT
Content-Type: text/html; charset=utf-8
Content-Length: 18
Connection: close
Succesfully added!eugene@eugene:~$
```

```
eugene@eugene:~$ curl -i -H "Content-Type: application/json" -X POST -d '{"1": "
Hello world!"}' http://localhost:5000/api/v1/storage/json/write
HTTP/1.1 200 OK
Server: Werkzeug/2.2.3 Python/3.9.16
Date: Fri, 31 Mar 2023 22:13:19 GMT
Content-Type: text/html; charset=utf-8
Content-Length: 18
Connection: close
Succesfully added!eugene@eugene:~$
```

```
eugene@eugene:~$ curl -i -H "Content-Type: application/json" -X POST -d '{"sdf":
   "Hello world!"}' http://localhost:5000/api/v1/storage/json/write
HTTP/1.1 200 OK
Server: Werkzeug/2.2.3 Python/3.9.16
Date: Fri, 31 Mar 2023 22:13:47 GMT
Content-Type: text/html; charset=utf-8
Content-Length: 18
Connection: close
Succesfully added!eugene@eugene:~$
```

Все данные:



{"1":["Moscow","Hello world!"],"sdf":["Hello world!"]}

Данные по ключу:



Moscow, Hello world!



Hello world!

Задание 2.1

Сделал сразу через плейбук.

Но само задание делается путем изменения файла /etc/nginx/nginx.conf

Для веб-серверов:

```
events {
    worker_connections 768;
}

http {
    server {
        location / {
            return 200 "Hello Word! \n Server 1";
        }
    }
}
```

Для балансировщика на:

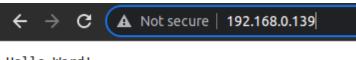
```
events {
    worker_connections 768;
}

http {
    upstream web {
        server 192.168.0.136;
        server 192.168.0.137;
    }

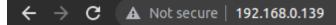
    server {
        location / {
            proxy_pass http://web;
        }
    }
}
```

Далее обращаемся к балансировщику, который редиректит на один из серверов. Скр

Через браузер обращаемся к балансировщику:



Hello Word! Server 1



Hello Word! Server 2