3. Написание 1-го Dockerfile

```
mkdir ~/docker-python-app
cd ~/docker-python-app
файл Dockerfile:
touch Dockerfile
nano Dockerfile
B Dockerfile:
FROM python: 3.9-slim
WORKDIR /app
ENV NAME World
COPY . /app
ENTRYPOINT ["python"]
CMD ["hello.py"]
delakoka@DESKTOP-8FMQJBU:/mnt/d/courses/TMSds$ mkdir HW53/
delakoka@DESKTOP-8FMQJBU:/mnt/d/courses/TMSds$ cd HW53/
delakoka@DESKTOP-8FMQJBU:/mnt/d/courses/TMSds/HW53$ mkdir docker-python-app
delakoka@DESKTOP-8FMQJBU:/mnt/d/courses/TMSds/HW53$ cd docker-python-app/
delakoka@DESKTOP-8FMQJBU:/mnt/d/courses/TMSds/HW53/docker-python-app$ touch Dockerfile
delakoka@DESKTOP-8FMQJBU:/mnt/d/courses/TMSds/HW53/docker-python-app$ nano Dockerfile
delakoka@DESKTOP-8FMQJBU:/mnt/d/courses/TMSds/HW53/docker-python-app$ cat Dockerfile
FROM python:3.9-slim WORKDIR /app ENV NAME World COPY ./app ENTRYPOINT ["python"] CMD ["hello.py
hello.py:
nano hello.py
Содержимое hello.py:
import os
name = os.getenv('NAME', 'World')
print(f"Hello, {name}!")
файл sum.py:
nano sum.py
Содержимое sum.py:
import sys
if len(sys.argv) == 3:
    try:
         num1 = int(sys.argv[1])
         num2 = int(sys.argv[2])
         print(f"Sum: {num1 + num2}")
    except ValueError:
         print("Please provide two numbers.")
else:
    print("Usage: python sum.py <num1> <num2>")
```

```
delakoka@DESKTOP-8FMQJBU:/mnt/d/courses/TMSds/HW53/docker-python-app$ nano sum.py
delakoka@DESKTOP-8FMQJBU:/mnt/d/courses/TMSds/HW53/docker-python-app$ cat sum.py
import sys
if len(sys.argv) == 3:
        try:
                num1 = int(sys.argv[1])
                num2 = int(sys.argv[2])
                print(f"Sum: {num1 + num2}")
        except ValueError:
                print("Entry numbers")
else:
        print("Usage: python sum.py <num1> <num2>")
```

```
4. Написание 2-го Dockerfile
mkdir ~/docker-nginx-app
cd ~/docker-nginx-app
второй Dockerfile:
touch Dockerfile
nano Dockerfile
FROM nginx:latest
WORKDIR /usr/share/nginx/html/
COPY index.html /usr/share/nginx/html/
nano index.html
Содержимое:
<!DOCTYPE html>
<html>
<head>
    <title>Personal Info</title>
</head>
<body>
    <h1>Котова Ксения</h1>
    Группа: TMS DS07-onl
    <р>Дата: 10 октября 2024</р>
</body>
</html>
delakoka@DESKTOP-8FMQJBU:/mnt/d/courses/TMSds/HW53$ mkdir docker-nginx-app
delakoka@DESKTOP-8FMQJBU:/mnt/d/courses/TMSds/HW53$ cd docker-nginx-app/
delakoka@DESKTOP-8FMQJBU:/mnt/d/courses/TMSds/HW53/docker-nginx-app$
delakoka@DESKTOP-8FMQJBU:/mnt/d/courses/TMSds/HW53/docker-nginx-app$ touch Dockerfile
delakoka@DESKTOP-8FMQJBU:/mnt/d/courses/TMSds/HW53/docker-nginx-app$ nano Dockerfile
delakoka@DESKTOP-8FMQJBU:/mnt/d/courses/TMSds/HW53/docker-nginx-app$ nano index.html
delakoka@DESKTOP-8FMQJBU:/mnt/d/courses/TMSds/HW53/docker-nginx-app$ cat index.html
<!DOCTYPE html>
<html>
       <head>
               <title>Student Info</title>
        </head>
        <body>
               <h1>Котова Ксения</h1>
               Группа: TMS DS07-onl
               <р>Дата: 10 октября 2024</р>
        </body>
</html>
```

5. Сборка образов

Для Python:

cd ~/docker-python-app docker build -t kotova-python:lesson53 .

```
8FMQJBU:/mnt/d/courses/TMSds/HW53/docker-python-app$ docker build -t kotova-python:lesson53
[+] Building 6.6s (9/9) FINISHED
                                                                                      docker:default
```

Для Nginx:

```
cd ~/docker-nginx-app
```

```
docker build -t kotova-nginx:lesson53 .
[+] Building 15.4s (9/9) FINISHED
```

6. Запуск Python-образа

```
docker run kotova-python:lesson53
docker run -e NAME=Docker kotova-python:lesson53
```

```
Hello, World!

delakoka@DESKTOP-8FMQJBU:/mnt/d/courses/TMSds/HW53/docker-python-app$ docker run -e NAME=Docker kotov
a-python:lesson53
Hello, World!

docker run kotova-python:lesson53 sum.py
docker run kotova-python:lesson53 sum.py 5 7

delakoka@DESKTOP-8FMQJBU:/mnt/d/courses/TMSds/HW53/docker-python-app$ docker run kotova-python:lesson
53 sum.py
Usage: python sum.py <num1> <num2>
delakoka@DESKTOP-8FMQJBU:/mnt/d/courses/TMSds/HW53/docker-python-app$ docker run kotova-python:lesson
53 sum.py 5 7
Sum: py 5 7
Sum: 12
```

oka@DESKTOP-8FMQJBU:/mnt/d/courses/TMSds/HW53/docker-python-app\$ docker run kotova-python:lesson

7. Запуск Nginx-образа

docker run -p 8080:80 kotova-nginx:lesson53

http://localhost:8080

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```
delakoka@DESKTOP-8FMQJBU:/mmt/d/courses/TMSG/HMS53 cd docker-nginx-app/delakoka@DESKTOP-8FMQJBU:/mmt/d/courses/TMSG/HMS53 cd docker-nginx-app/delakoka@DESKTOP-8FMQJBU:/mmt/d/courses/TMSG/HMS53/docker-nginx-app$ docker run -p 8080:80 kotova-ngi nx:lesson53
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration /docker-entrypoint.sh: Louoking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2024/10/10 19:07:09 [notice] 1#1: using the "epoll" event method
2024/10/10 19:07:09 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)
2024/10/10 19:07:09 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)
2024/10/10 19:07:09 [notice] 1#1: start worker processes
```