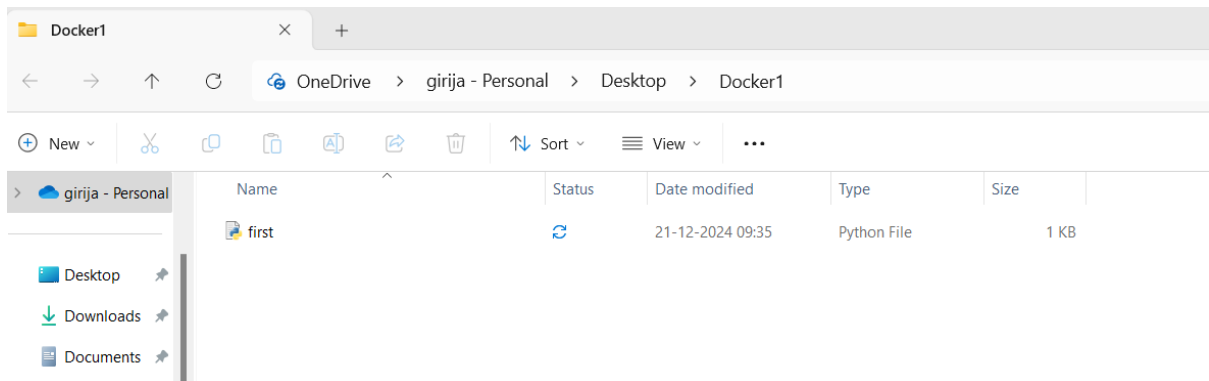


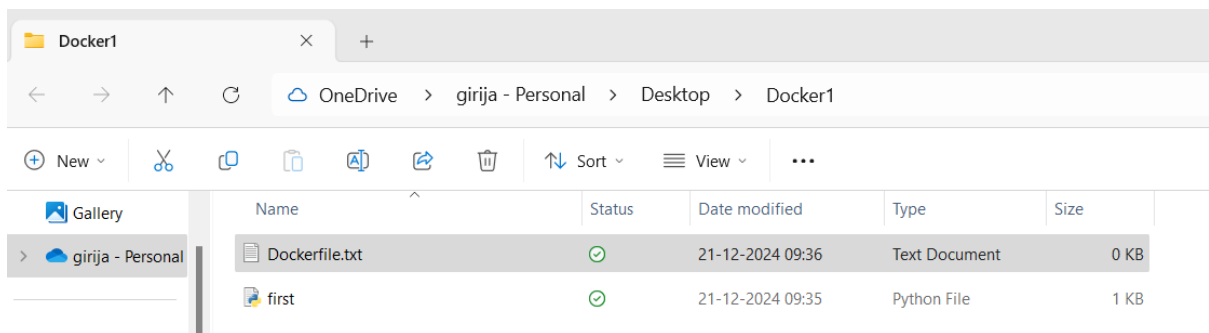
Creating Image and Container in docker

Open your docker in the background at all times

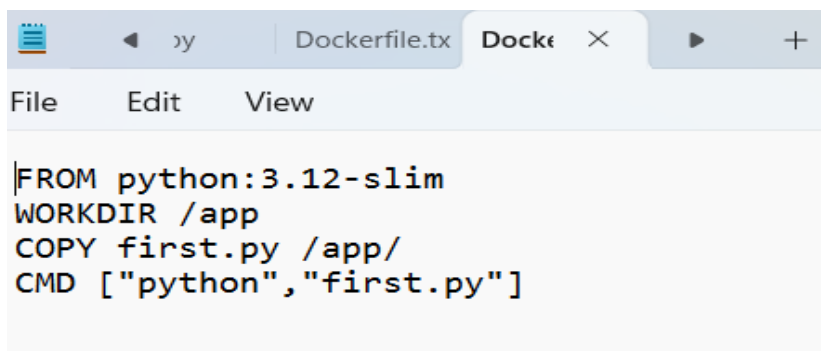
Create a folder named Docker and place a python file named "first.py" in the folder with some simple code:



Create a txt file named "**Dockerfile.txt**" in the Docker folder:

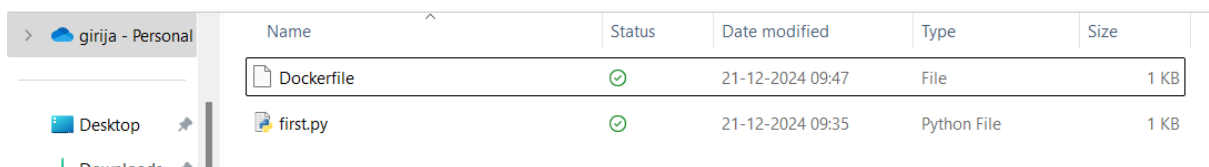


Enter the given text:



Open terminal in the folder and type the below code to convert txt into file:

```
PS C:\Users\balas\OneDrive\Desktop\Docker1> ren "Dockerfile.txt" "Dockerfile"
```



Type “**Docker build -t python312 .**” to integrate docker to terminal (312 is python version 3.12. It may change according to your device):

```
PS C:\Users\balas\OneDrive\Desktop\docker1> Docker build -t python312 .
[+] Building 10.2s (9/9) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 128B
=> [internal] load metadata for docker.io/library/python:3.12-slim
=> [auth] library/python:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/3] FROM docker.io/library/python:3.12-slim@sha256:2b0079146a74e23bf4ae8f6a28e1b484c6292f6fb904cbb51825b4a19812fcd8
=> => resolve docker.io/library/python:3.12-slim@sha256:2b0079146a74e23bf4ae8f6a28e1b484c6292f6fb904cbb51825b4a19812fcd8
=> => sha256:8bfa778b5b231c44fb4d5b4783fe69f55f2b3f59dad4c8285661c3f752494a6 13.65MB / 13.65MB
=> => sha256:9b871d410cbf35a95adb8c061f6d60e2e129bd2fd9b60485a8dd397ee3fcf61 3.32MB / 3.32MB
=> => sha256:258b25b9265525eafd659e18f862525eaa9e6379dce2ef29defd91ba0b8868c 249B / 249B
=> => sha256:bc0965b23a04fe7f2d9fb20f597008fcf89891de1c705ffcl80483a1f098e4f 28.23MB / 28.23MB
=> => extracting sha256:bc0965b23a04fe7f2d9fb20f597008fcf89891de1c705ffcl80483a1f098e4f
=> => extracting sha256:9b871d410cbf35a95adb8c061f6d60e2e129bd2fd9b60485a8dd397ee3fcf61
=> => extracting sha256:8bfa778b5b231c44fb4d5b4783fe69f55f2b3f59dad4c8285661c3f752494a6
=> => extracting sha256:258b25b9265525eafd659e18f862525eaa9e6379dce2ef29defd91ba0b8868c
=> [internal] load build context
=> => transferring context: 58B
=> [2/3] WORKDIR /app
=> [3/3] COPY first.py /app/
=> exporting to image
=> => exporting layers
=> => exporting manifest sha256:4b7489f71d74e2b7444354a91bae68c437a6fe4fb3160ce20ff52ba7a0028351
=> => exporting config sha256:949aebc7cc86ca0afcf63299034a63449e0b27742efdf29044046e07875751d
=> => exporting attestation manifest sha256:551d6e80effc4e09b8954c25f14b5cbec158460de437fd944e1eed6fb81fc05eb
=> => exporting manifest list sha256:9c62cf9cbeaf437fc88380c88c910efb3b8b969a3ac0032305f720c97b67cc9
=> => naming to docker.io/library/python312:latest
=> => unpacking to docker.io/library/python312:latest
PS C:\Users\balas\OneDrive\Desktop\docker1> |
```

Type “**Docker run python312**” to print the output of your code:

```
PS C:\Users\balas\OneDrive\Desktop\docker1> Docker run python312
Hello World
```

Type “**Docker login**” to login into your account:

```
PS C:\Users\balas\OneDrive\Desktop\docker1> Docker login
Authenticating with existing credentials...
Login Succeeded
PS C:\Users\balas\OneDrive\Desktop\docker1> |
```

Login to ur Docker Hub and create a new repository named python312:

The screenshot shows the Docker Hub 'Create repository' page. The 'Namespace' is set to 'bgirija' and the 'Repository Name' is 'python312'. The 'Pushing images' section provides the following CLI commands: `docker tag local-image:tagname new-repo:tagname` and `docker push new-repo:tagname`. The 'Visibility' section is set to 'Public'.

Type “**Docker tag python312 <username>/python312**” to create a container:

```
PS C:\Users\balas\OneDrive\Desktop\docker1> Docker tag python312 bgirija/python312
```

Type “**docker images**” to get the image id :

```
PS C:\Users\balas\OneDrive\Desktop\docker1> docker images
REPOSITORY          TAG
IMAGE ID            CREATED             SIZE
bgirija/python312   latest
9c62cf9fc8ea        13 minutes ago     185MB
```

Type “**Docker tag <Image ID> <username>/python312:tagname**” to create a container:

```
PS C:\Users\balas\OneDrive\Desktop\docker1> docker tag 9c62cf9fc8ea girijab/python312:latest
```

Type “**Docker push <username>/python312**” to push the python file as image into the container:

```
PS C:\Users\balas\OneDrive\Desktop\docker1> docker push bgirija/python312:latest
The push refers to repository [docker.io/bgirija/python312]
9e1d8722afaf: Layer already exists
3e7e095836f9: Already exists
df67e97b8439: Layer already exists
bc0965b23a04: Pushing [=====>] 4.85MB/28.23MB
9b871d410cbf: Pushing [=====>] 2.753MB/3.317MB
8bfa778b5b23: Pushing [=====>] 3.473MB/13.65MB
258b25b92655: Layer already exists
```

Check your docker hub for the new container of python312:

Check your docker for the new container and images created:

Containers [Give feedback](#)

Container CPU usage ⓘ

No containers are running.

Container memory usage ⓘ

No containers are running.

[Show charts](#)

Search



Only show running containers

<input type="checkbox"/>	Name ↑	Container ID	Image	Port(s)	CPU (%)	Last started	Actions
<input type="checkbox"/>	eager_lalande	ddb326c6b03f	python312		N/A	20 minutes ago	▶ ⋮ 🗑️