

Got it — you want to **run a Python code using Docker**.

I'll explain it clearly, step-by-step:

✂ Steps to Run Python Code Using Docker:

1. Install Docker

- Make sure **Docker** is installed on your system.
- Check it by running:
 - `docker --version`
 -
- If not installed, install it from [Docker Official Site](#).

2. Create Your Python Project

Suppose you have a simple Python file, for example `app.py`:

```
# app.py

print("Hello from Dockerized Python app!")
```

3. Create a Dockerfile

In the same folder where `app.py` is, create a file called `Dockerfile` (no extension).

Here's a simple Dockerfile:

```
# Use the official Python image from Docker Hub
FROM python:3.10

# Set the working directory inside the container
WORKDIR /usr/src/app

# Copy the current directory contents into the container
COPY . .

# Run the Python program
```

```
CMD ["python", "app.py"]
```

Explanation:

- FROM python:3.10 → Use a ready-made Python 3.10 environment.
- WORKDIR /usr/src/app → Inside the container, move to this directory.
- COPY . . → Copy everything from your project folder into the container.
- CMD ["python", "app.py"] → Run your Python file.

4. Build the Docker Image

In your terminal, navigate to your project folder and run:

```
docker build -t my-python-app .
```

Explanation:

- -t my-python-app → Names your Docker image "my-python-app".
- . → Means "build from the current directory".

5. Run the Docker Container

Now run your image:

```
docker run my-python-app
```

You should see:

```
Hello from Dockerized Python app!
```

Congratulations, you just ran Python code inside Docker!

Summary Diagram (ASCII)

```
[Local Code] --> [Dockerfile Created] --> [Docker Image Built] --> [Docker Container Runs] --> [Python Code Executes]
```

Quick Commands Summary:

Step	Command
Check Docker Installed	<code>docker --version</code>
Build Image	<code>docker build -t my-python-app .</code>
Run Container	<code>docker run my-python-app</code>

Would you like me also to show you how to:

- Attach external files/data folders?
- Use `requirements.txt` if you have external Python libraries?
- Run interactive Python (e.g., Jupyter or REPL) inside Docker?

👉 Tell me, and I'll explain next!