

## TITLE: BUILDING A SIMPLE "HELLO, WORLD!" DOCKER PYTHON APP USING DOCKER DESKTOP ON WINDOWS

### **Step 1. Windows Command Prompt**

In Command Prompt, you can use echo to print text to the console:

```
echo. > Dockerfile
```

```
echo. > app.py
```

### **Step 2: Create a Dockerfile**

1. In the same directory, create a file named Dockerfile (with no extension) and add the following content:

```
# Use the official Python image from the Docker Hub
```

```
FROM python:3.9-slim
```

```
# Set the working directory
```

```
WORKDIR /app
```

```
# Copy the Python script into the container
```

```
COPY app.py .
```

```
# Print a message for debugging
```

```
RUN echo "Building the Python application..."
```

```
# Run the Python script
```

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

### **Step 3: Create a simple Python script.**

You can use any text editor to create a file named app.py and add the following code:

```
# app.py
```

```
print("Hello, World!")
```

### **Step 4: Build the Docker Image**

1. Open a terminal (Command Prompt or PowerShell) in the hello-docker directory.

2. Run the following command to build the Docker image:

*docker build -t hello-docker .*

### **Step 5: Run the Docker Container**

1. After the image is built successfully, run the following command to create and start a container from the image:

*docker run hello-docker*

2. You should see the output:

*Hello, World!*