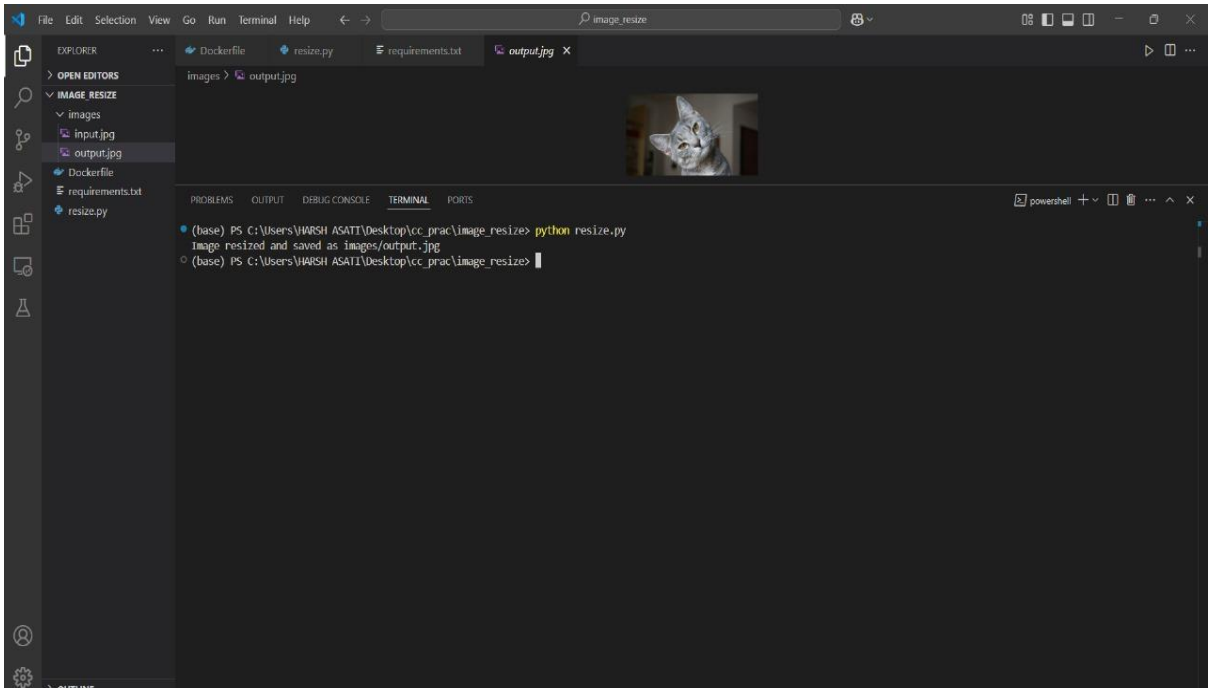
PRACTICAL-4

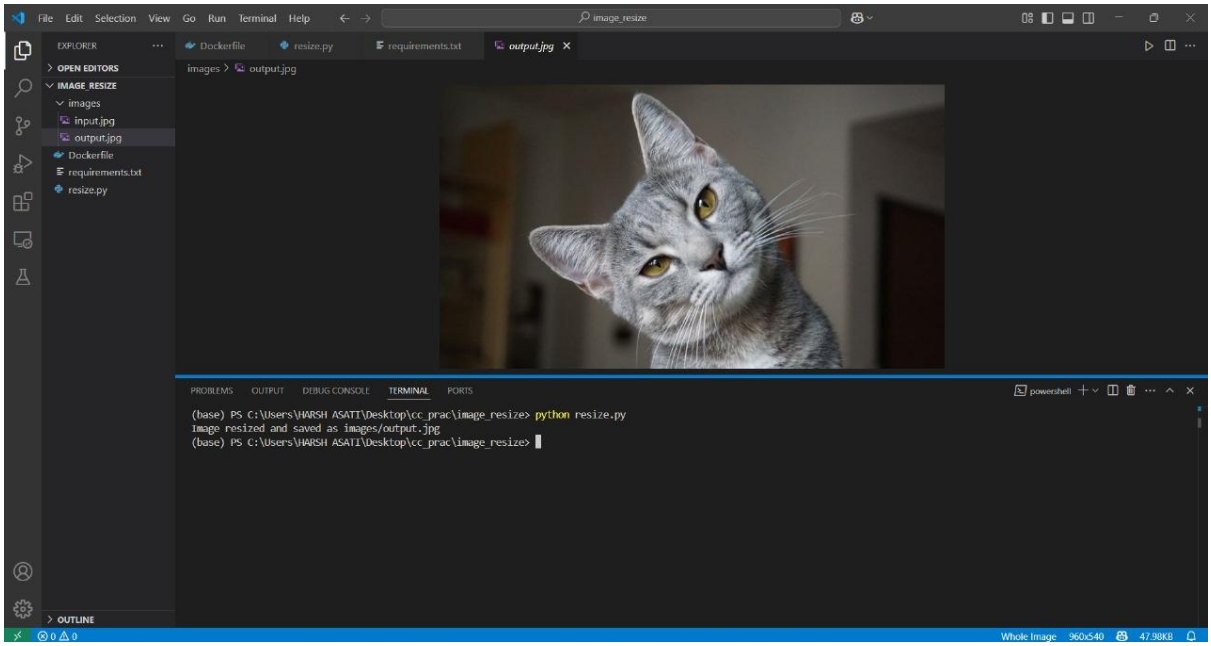
Aim:- Locally reduce resolution of images using docker

Image resizing is the process of reducing (or enlarging) the dimensions of an image, which decreases the file size and resolution. Tools like **ImageMagick** are widely used for this because they provide powerful and flexible command-line options. Running these tools inside **Docker** ensures your local machine doesn't need to install any heavy software — everything happens inside an isolated container environment, making it clean, fast, and portable.

STEPS:-

1. Install Docker if it's not already installed.
2. Create a new working directory (e.g., image-resizer) and inside it, create two folders: input (to place original images) and output (where resized images will be saved).
3. Inside the working directory, create a Dockerfile that uses the dpokidov/imagemagick base image, sets the working directory to /app, copies the input/ folder into the container, and opens a bash shell by default.
4. Build the Docker image and tag it as image-resizer.
5. Run the Docker container interactively while mounting the input/ and output/ folders from your local machine to the container's /input and /output paths.
6. Inside the container, use ImageMagick to batch resize all images from /input and save the resized versions to /output.
7. Exit the container, and you'll find the resized images inside your local output/ folder.


File Edit Selection View Go Run Terminal Help
image_resize
EXPLORER
Dockerfile
resize.py
requirements.txt
output.jpg
images > output.jpg
OPEN EDITORS
IMAGE_RESIZE
images
input.jpg
output.jpg
Dockerfile
requirements.txt
resize.py
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
powershell
(base) PS C:\Users\HARSH ASATI\Desktop\cc_prac\image_resize> python resize.py
Image resized and saved as images/output.jpg
(base) PS C:\Users\HARSH ASATI\Desktop\cc_prac\image_resize>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(base) PS C:\Users\HARSH ASATI\Desktop\cc_prac\image_resize> python resize.py
Image resized and saved as images/output.jpg
(base) PS C:\Users\HARSH ASATI\Desktop\cc_prac\image_resize>
OUTLINE
Whole Image 960x540 47.98KB