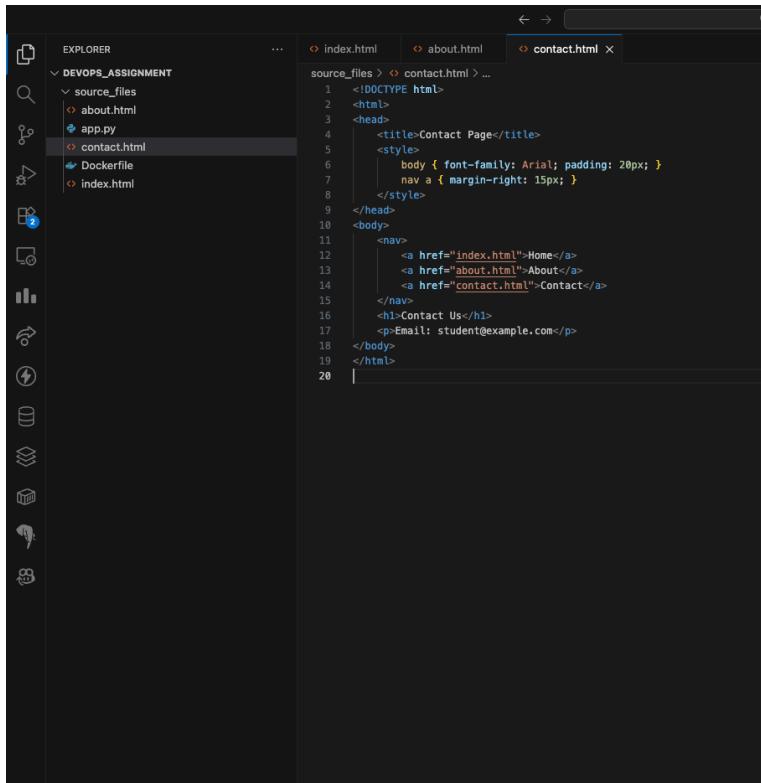


Github - https://github.com/DevMhrn/Assignment_9_11_25

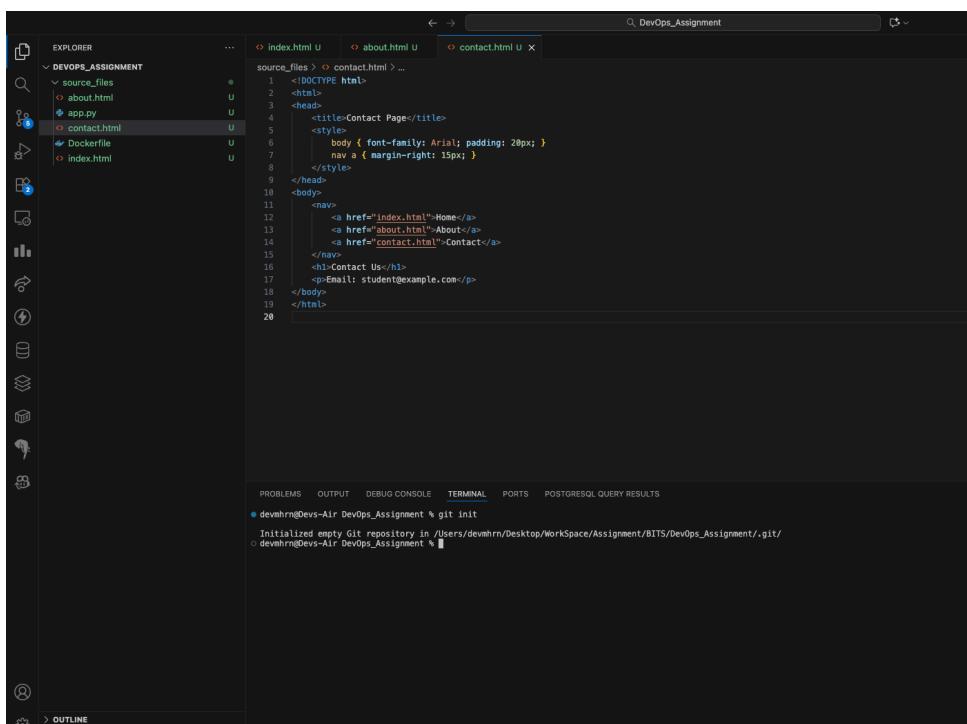
Docker - <https://hub.docker.com/repository/docker/debashis796/devmhrn-hello/general>

Question 1:



The screenshot shows a code editor window with the contact.html file open. The file contains the following HTML and CSS code:

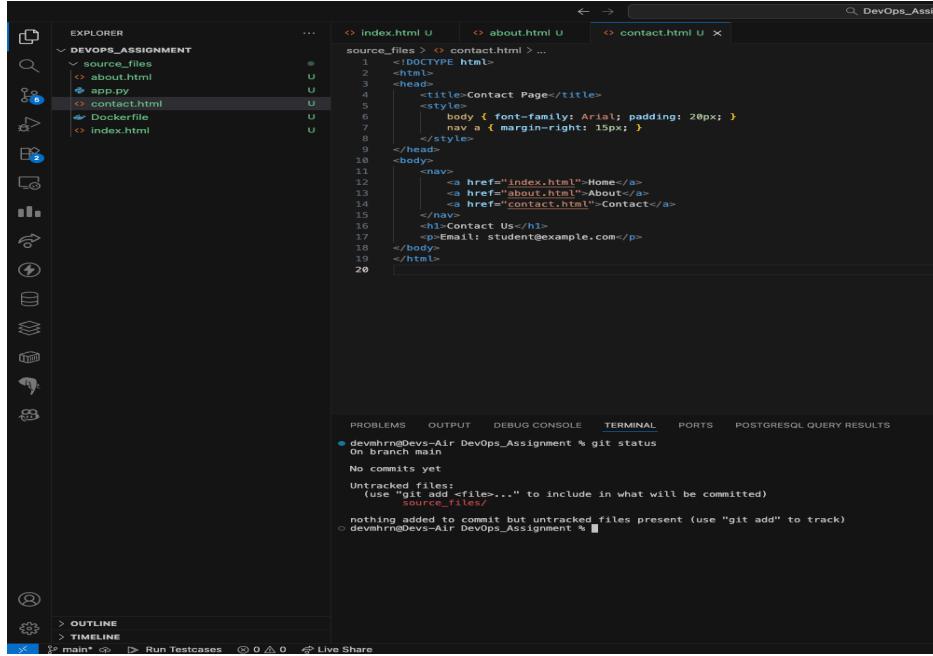
```
<!DOCTYPE html>
<html>
<head>
    <title>Contact Page</title>
    <style>
        body { font-family: Arial; padding: 20px; }
        nav a { margin-right: 15px; }
    </style>
</head>
<body>
    <nav>
        <a href="index.html">Home</a>
        <a href="about.html">About</a>
        <a href="contact.html">Contact</a>
    </nav>
    <h1>Contact Us</h1>
    <p>Email: student@example.com</p>
</body>
</html>
```



The screenshot shows a code editor window with the contact.html file open. The file content is identical to the one in the previous screenshot. At the bottom of the interface, there is a terminal window displaying the following command and its output:

```
devmhrn@Devs-Air DevOps_Assignment % git init
Initialized empty Git repository in /Users/devmhrn/Desktop/WorkSpace/Assignment/BITS/DevOps_Assignment/.git/
devmhrn@Devs-Air DevOps_Assignment %
```

What it does: Initializes an empty Git repository in your project directory, creating a `.git` folder



DEVOPS_ASSIGNMENT

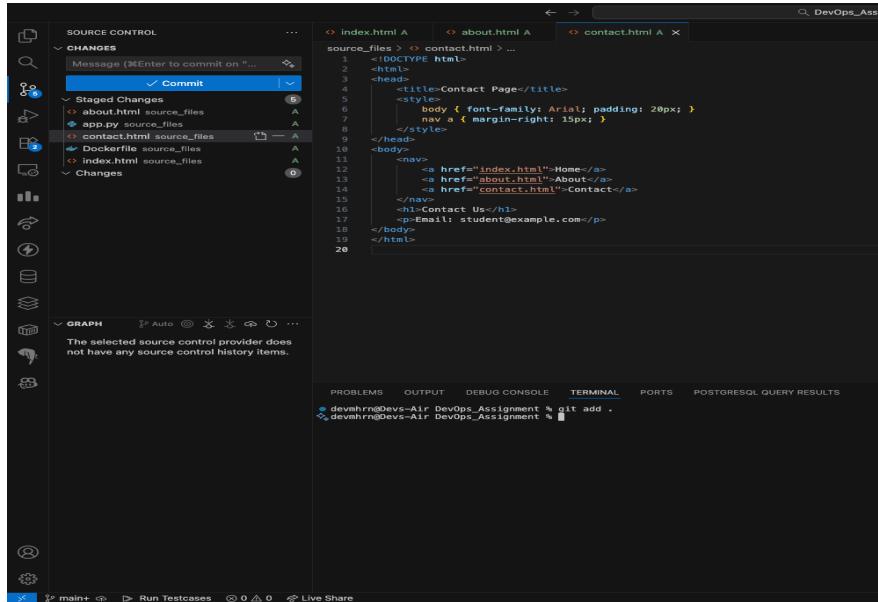
- source_files
- about.html
- app.py
- contact.html
- Dockerfile
- index.html

```
<!DOCTYPE html>
<html>
<head>
    <title>Contact Page</title>
    <style>
        body { font-family: Arial; padding: 20px; }
        nav a { margin-right: 15px; }
    </style>
</head>
<body>
    <nav>
        <a href="index.html">Home</a>
        <a href="about.html">About</a>
        <a href="contact.html">Contact</a>
    </nav>
    <h1>Contact Us</h1>
    <p>Email: student@example.com</p>
</body>
</html>
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS POSTGRES QUERY RESULTS

devmhrn@Devs-Air DevOps_Assignment % git status
On branch main
No commits yet
Untracked files:
(use "git add <file>..." to include in what will be committed)
 source_files
nothing added to commit but untracked files present (use "git add" to track)

What it does: Shows the current state of your working directory and staging area - which files are untracked, modified, or staged



SOURCE CONTROL

CHANGES

Message (Enter to commit on "...")

✓ Commit

Staged Changes

- about.html source_files
- app.py source_files
- contact.html source_files
- Dockerfile source_files
- index.html source_files

Changes

The selected source control provider does not have any source control history items.

```
<!DOCTYPE html>
<html>
<head>
    <title>Contact Page</title>
    <style>
        body { font-family: Arial; padding: 20px; }
        nav a { margin-right: 15px; }
    </style>
</head>
<body>
    <nav>
        <a href="index.html">Home</a>
        <a href="about.html">About</a>
        <a href="contact.html">Contact</a>
    </nav>
    <h1>Contact Us</h1>
    <p>Email: student@example.com</p>
</body>
</html>
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS POSTGRES QUERY RESULTS

devmhrn@Devs-Air DevOps_Assignment % git add .
devmhrn@Devs-Air DevOps_Assignment %

What it does: Adds files to the staging area, preparing them for commit

The screenshot shows a dark-themed code editor interface. On the left is a sidebar with various icons for file operations like copy, search, and refresh. The main area displays three files: index.html, about.html, and contact.html. The contact.html file is open and shows its HTML code. A message input field at the top says "Message (⌘Enter to commit on ...)" with a placeholder "Initial commit: Added 3 HTML p...". Below the message field is a blue button labeled "Publish Branch". In the bottom right corner of the code editor, there's a terminal window showing a git commit log:

```
devmhrn@Devs-Air DevOps_Assignment % git commit -m "Initial commit: Added 3 HTML pages for web application"
[initial commit, 65575c5] Initial commit: Added 3 HTML pages for web application
  5 files changed, 57 insertions(+)
  create mode 100644 index.html
  create mode 100644 about.html
  create mode 100644 source_files/contact.html
  create mode 100644 source_files/index.html
  create mode 100644 source_files/about.html
devmhrn@Devs-Air DevOps_Assignment %
```

What it does: Saves staged changes to the local repository with a descriptive message

This screenshot is similar to the previous one, showing the same code editor interface. The terminal window in the bottom right corner now shows an error message from the git log command:

```
devmhrn@Devs-Air DevOps_Assignment % git log --online
Fatal: unrecognized argument: --online
devmhrn@Devs-Air DevOps_Assignment % git log --online
fatal: unrecognized argument: --online
devmhrn@Devs-Air DevOps_Assignment %
```

What it does: Displays commit history showing commit IDs, authors, dates, and messages

The screenshot shows a terminal window with the following command history:

```
devmhrn@Devs-Air DevOps_Assignment % git branch
* main
devmhrn@Devs-Air DevOps_Assignment % git checkout -b new-branch
Switched to a new branch 'new-branch'
devmhrn@Devs-Air DevOps_Assignment % git branch
  main
* new-branch
devmhrn@Devs-Air DevOps_Assignment %
```

What it does: Lists, creates, or deletes branches. Branches allow parallel development

```
devmhrn@Devs-Air DevOps_Assignment % git switch new-branch
devmhrn@Devs-Air DevOps_Assignment % git switch main
Switched to branch 'main'
devmhrn@Devs-Air DevOps_Assignment %
```

What it does: Switches between branches in your repository

Initial commit: Added 3 HTML pages for web application

```
<!DOCTYPE html>
<html>
<head>
    <title>Contact Page</title>
    <style>
        body { font-family: Arial; padding: 20px; }
        nav a { margin-right: 15px; }
    </style>
</head>
<body>
    <nav>
        <a href="index.html">Home</a>
        <a href="about.html">About</a>
        <a href="contact.html">Contact</a>
    </nav>
    <h1>Contact Us</h1>
    <p>Email: student@example.com</p>
</body>
</html>
```

Initial commit: Added 3 HTML pages for web application

Name	Last commit message	Last commit date
..		5 minutes ago
Dockerfile	Initial commit: Added 3 HTML pages for web application	5 minutes ago
about.html	Initial commit: Added 3 HTML pages for web application	5 minutes ago
app.py	Initial commit: Added 3 HTML pages for web application	5 minutes ago
contact.html	Initial commit: Added 3 HTML pages for web application	5 minutes ago
index.html	Initial commit: Added 3 HTML pages for web application	5 minutes ago

Question 2:

The screenshot shows the Visual Studio Code interface. In the Explorer sidebar, there is a folder named 'DEVOPS_ASSIGNMENT' containing 'source_files', 'Dockerfile', and 'index.html'. The 'Dockerfile' tab is selected in the top bar, displaying the following code:

```
source_files > Dockerfile > ...
1 # Use official Python runtime as base image
2 FROM python:3.9-slim
3
4 # Set working directory in container
5 WORKDIR /app
6
7 # Copy application file into container
8 COPY app.py .
9
10 # Run the application
11 CMD ["python", "app.py"]
```

The terminal tab shows the following command-line session:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS POSTGRESQL QUERY RESULTS
● devmhrn@Devs-Air source_files % docker login
  USING WEB-BASED LOGIN
  ● Info → To sign in with credentials on the command line, use 'docker login -u <username>'

  Your one-time device confirmation code is: JNDQ-PXWZ
  Press ENTER to open your browser or submit your device code here: https://login.docker.com/activate
  Waiting for authentication in the browser...
  Login Succeeded
  ● devmhrn@Devs-Air source_files % docker tag local-image:tag debashis796/repository:tag
  Error response from daemon: No such image: local-image:tag
  ● devmhrn@Devs-Air source_files % docker tag devmhrn-hello:v1 debashis796/devmhrn-hello:v1
  ● devmhrn@Devs-Air source_files % docker push debashis796/devmhrn-hello:v1
  The push refers to repository [docker.io/debashis796/devmhrn-hello]
  a16e5119267: Pushed
  d490e0987674: Pushed
  c23f40583473: Pushed
  ebfe764f0a0c5: Pushed
  7fb9a2a0a0c5: Pushed
  479b8ad8bc3: Pushed
  6828eb9d8ac8: Pushed
  v1: digest: sha256:9ed0bb129713bec2736a475eb21b001f86f36824b5480f0dca86b357f064a833 size: 856
  ○ devmhrn@Devs-Air source_files %
```

The status bar at the bottom indicates 'In 12. Col 1'.

The screenshot shows a web browser window for the Docker Hub URL: hub.docker.com/repository/docker/debashis796/devmhrn-hello/general. The left sidebar shows the user's profile and navigation links for Repositories, Collaborations, Settings, Billing, Usage, Pulls, and Storage. The main content area displays the repository details:

Repositories / debashis796 / General

debashis796/devmhrn-hello (○)

Last pushed 3 minutes ago · Repository size: 43.2 MB · ⭐0 · ↓0

Add a description ○ Add a category ○

General Tags Image Management BETA Collaborators Webhooks Settings

Tags

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
v1	Ubuntu	Image	less than 1 day	3 minutes

[See all](#)

Repository overview INCOMPLETE

An overview describes what your image does and how to run it. It displays in the public view of your repository once you have pushed some content.

[Add overview](#)

Docker commands

To push a new tag to this repository:

```
docker push debashis796/devmhrn-hello:tagname
```

Using 0 of 1 private repositories.

Build with Docker Build Cloud

Public view

buildcloud

Build with Docker Build Cloud

Accelerate image build times with access to cloud-based builders and shared cache.

Docker Build Cloud executes builds on optimally-dimensioned cloud infrastructure with dedicated per-organization isolation.

Get faster builds through shared caching across your team, native multi-platform support, and encrypted data transfer - all without managing infrastructure.

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