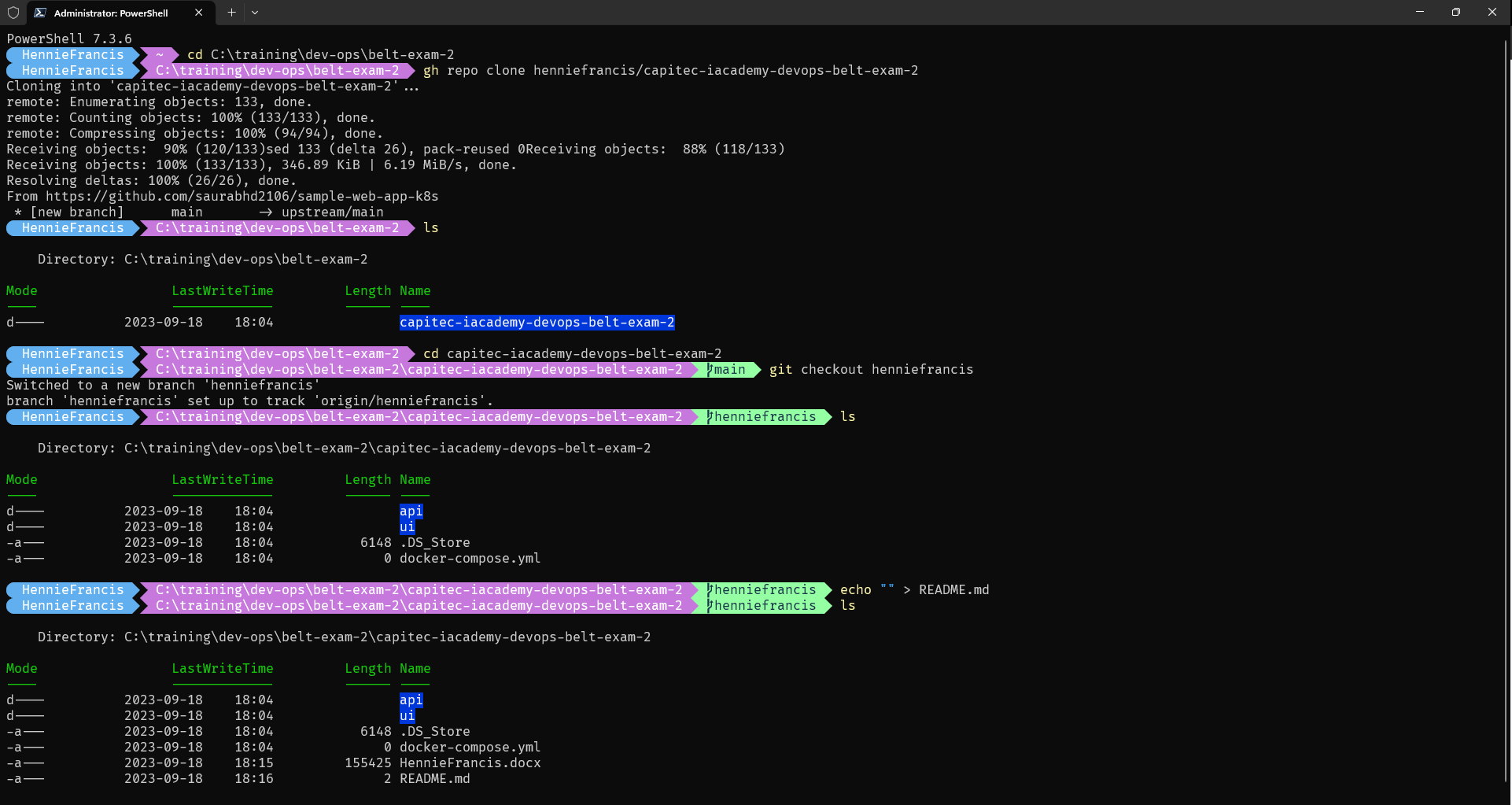
Hennie Francis – Belt Exam #2

# GitHub Project

Project Cloning and Branch Management

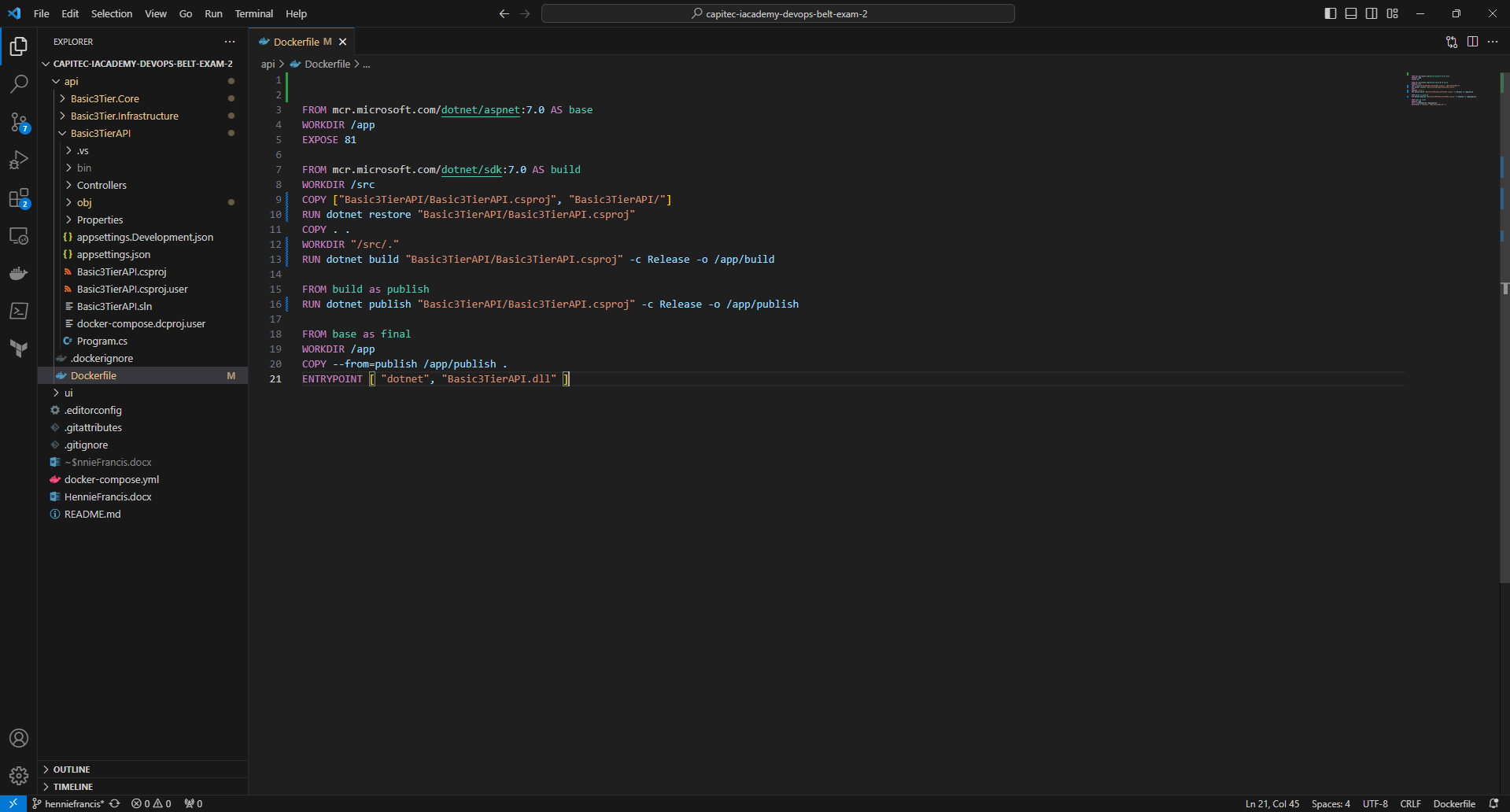


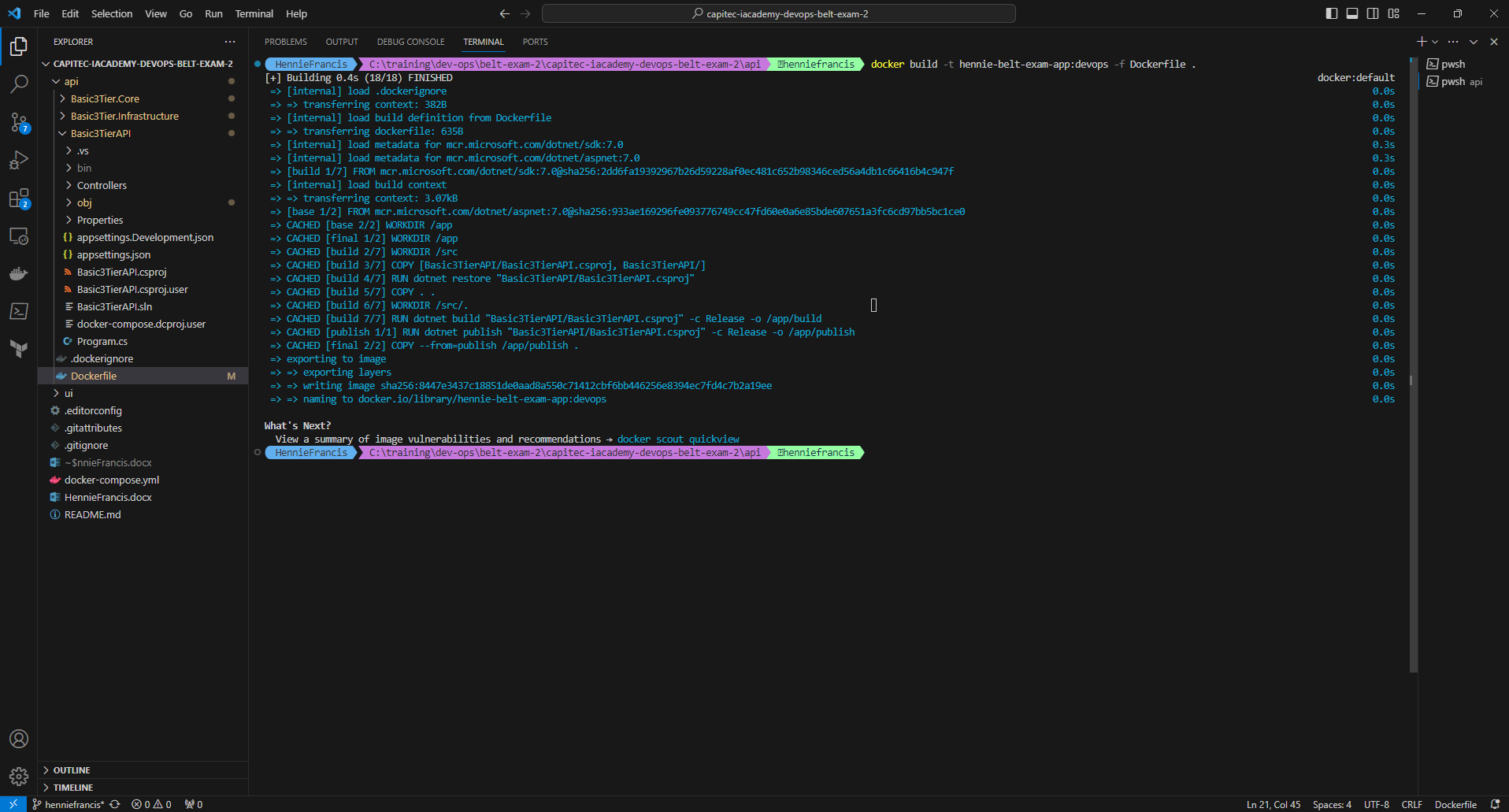
# Question 1:

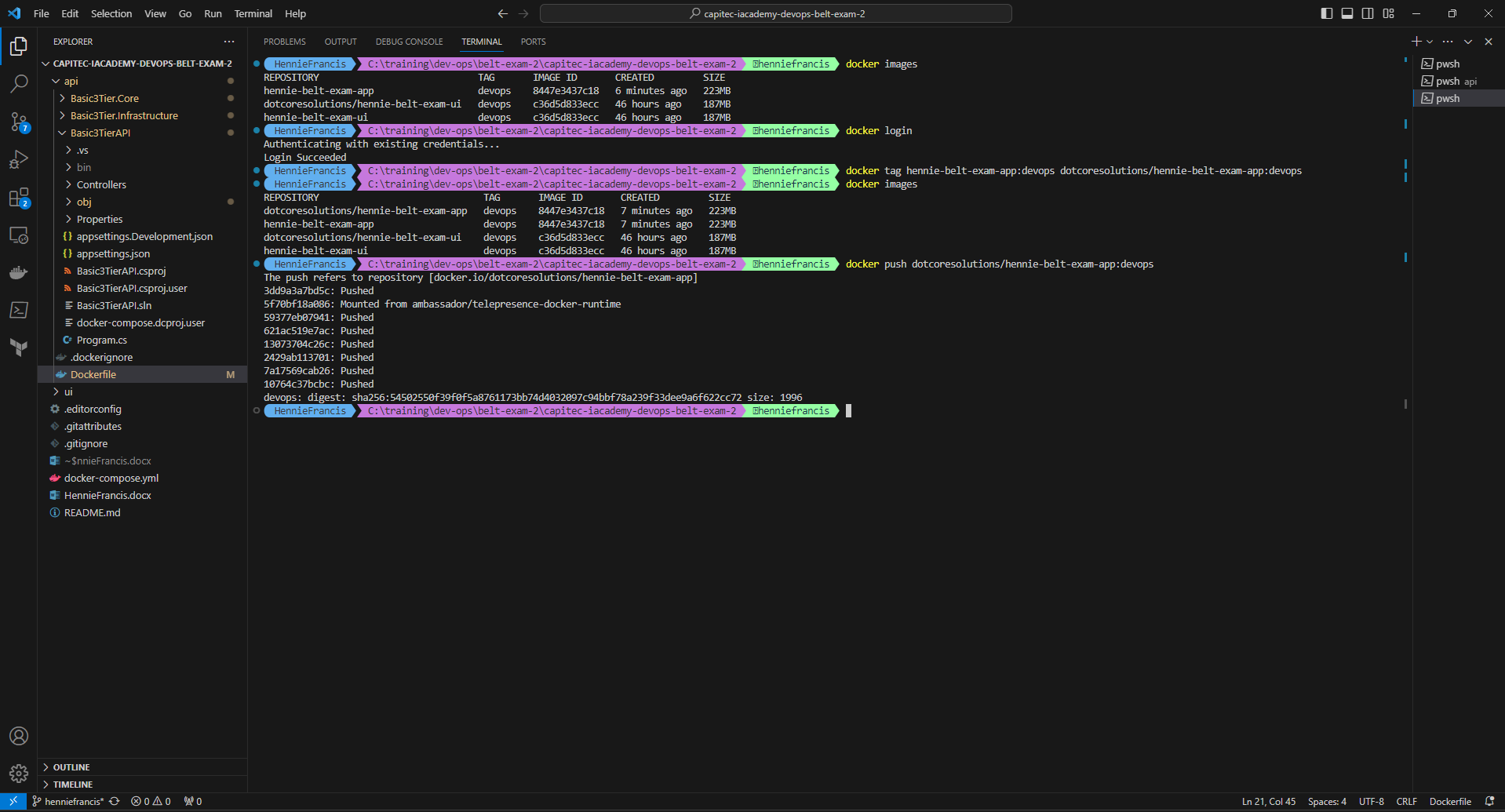
## DockerFile for Backend Application

A screenshot of a computer

Description automatically generated







## Dockerfile for Frontend Application

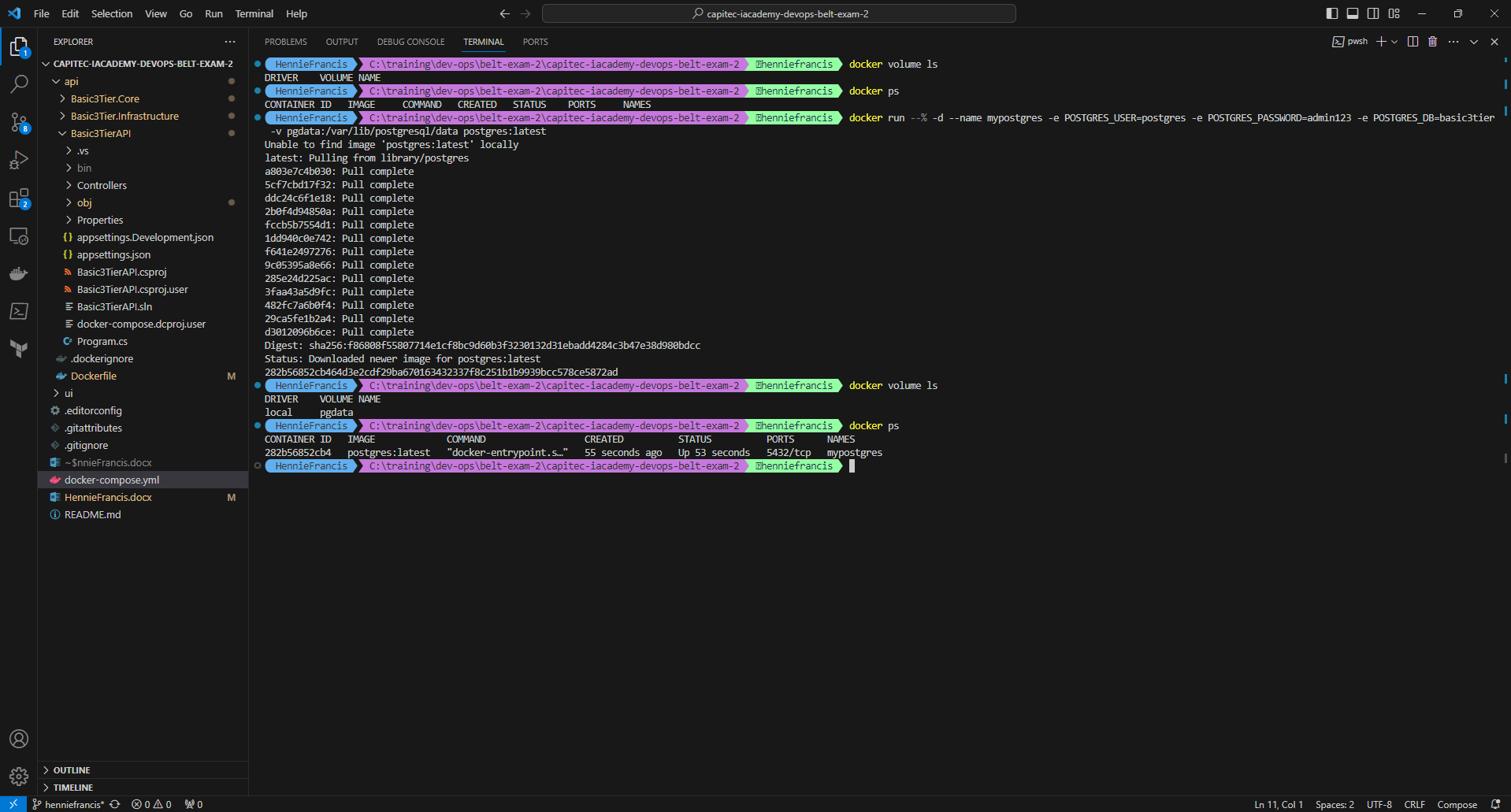
A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

## Deployment of Database Container



A screenshot of a computer

Description automatically generated

## Deploy PGAdmin

A computer screen with text on it

Description automatically generated

A screenshot of a computer

Description automatically generated

## Deploy the frontend application

**PLEASE NOTE MY PORT 80 is already consumed, will deploy on port 82.**

**A screenshot of a computer

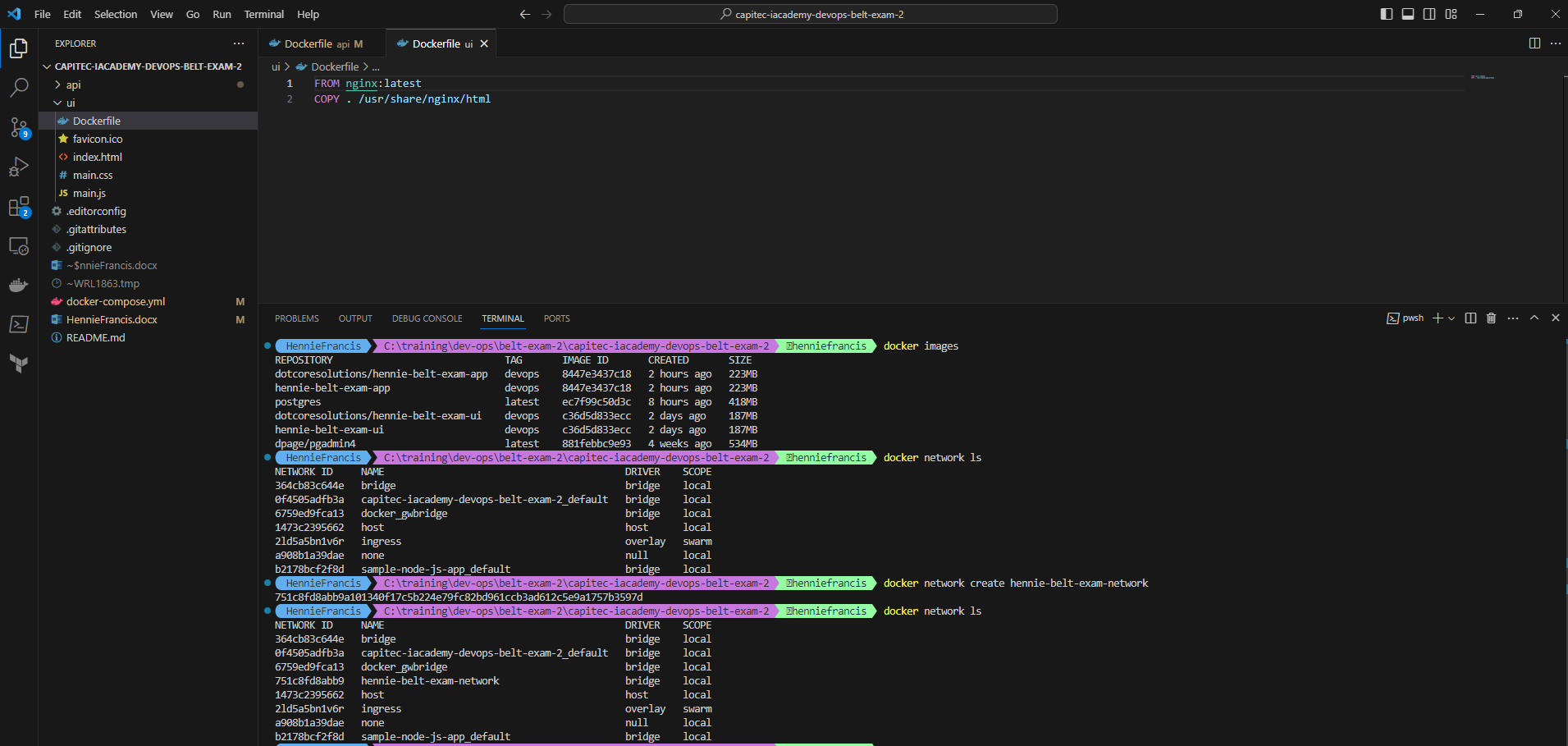
Description automatically generated**

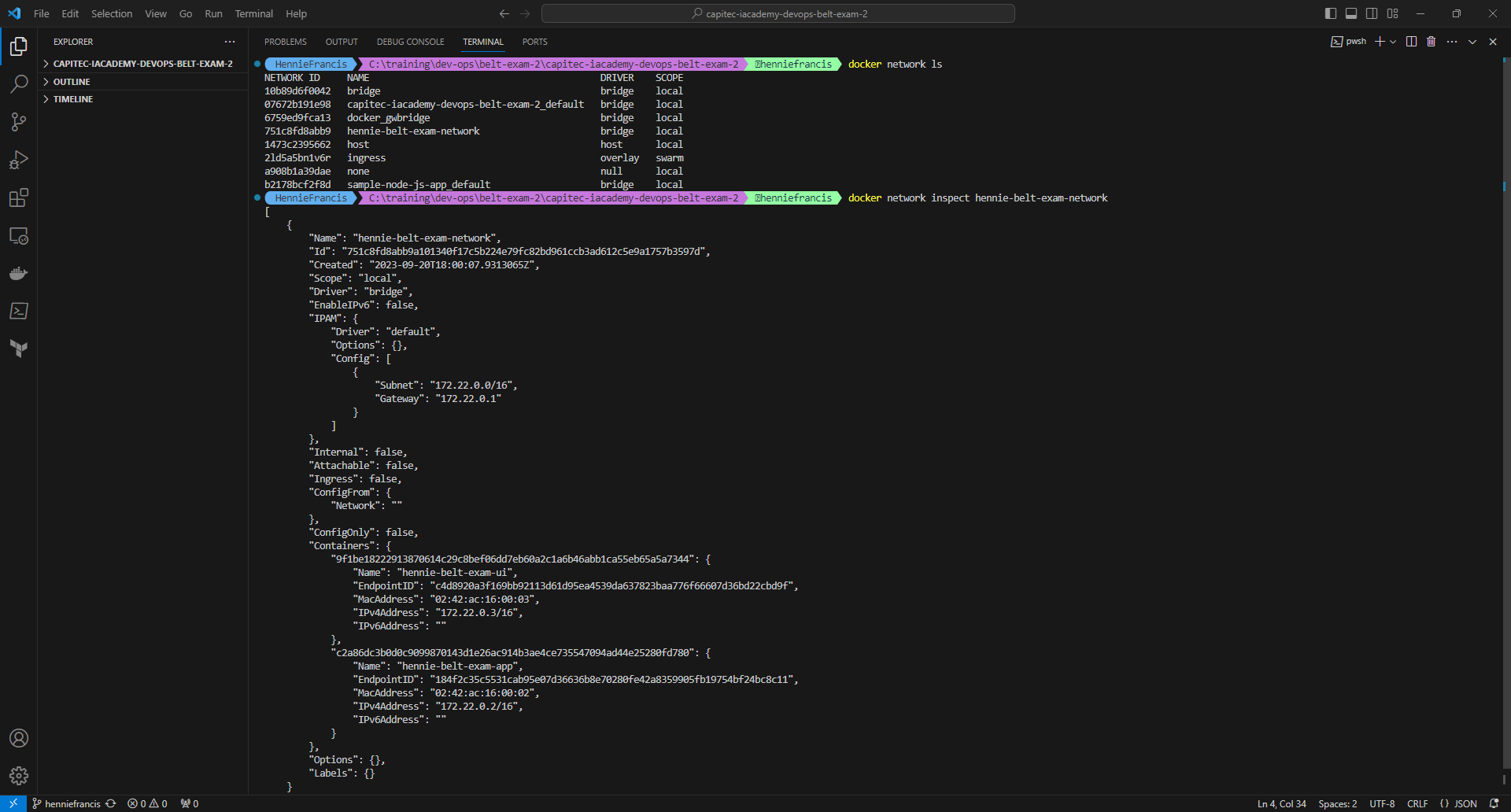
## Deploy the backend application

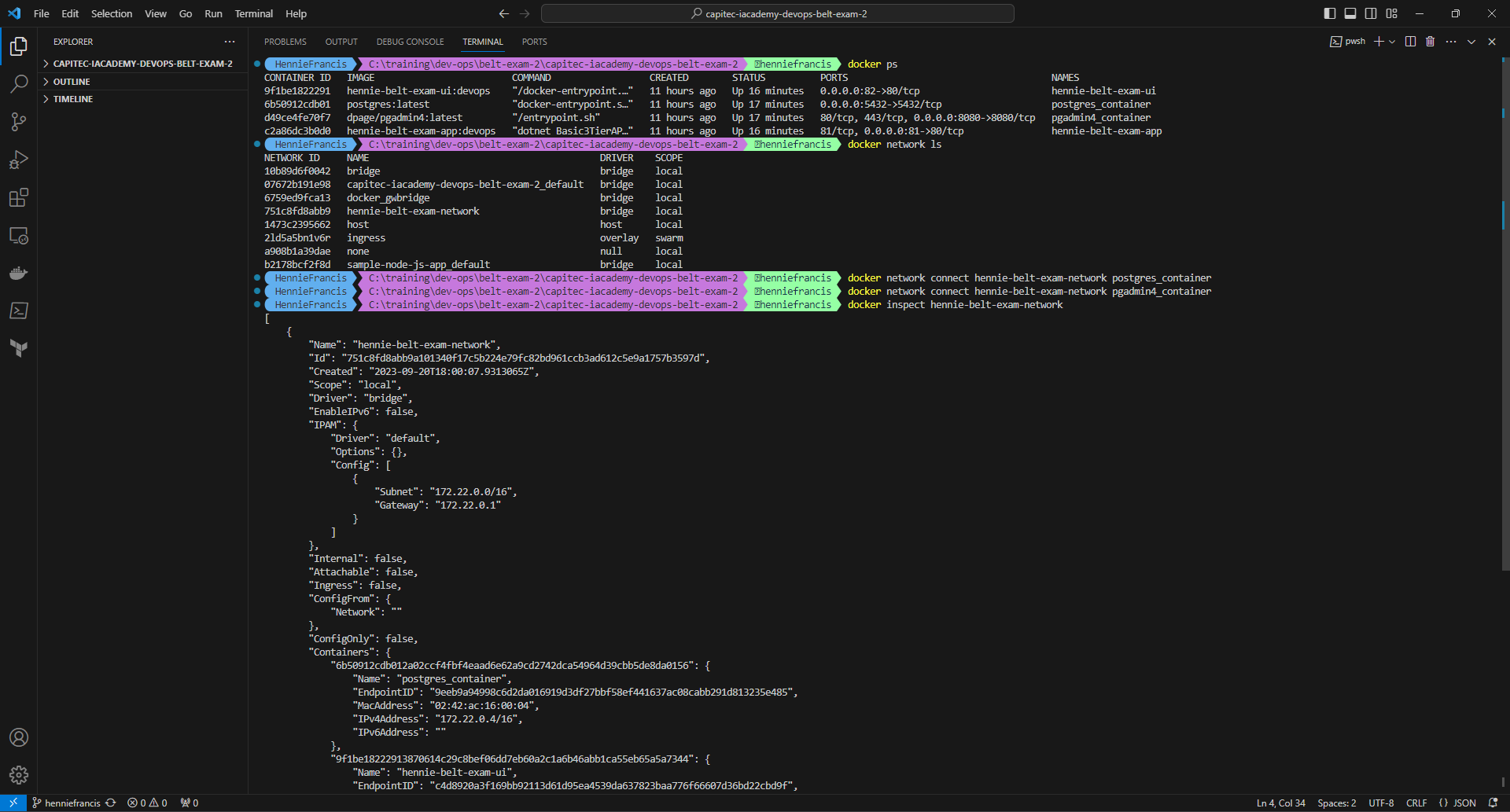
A screenshot of a computer

Description automatically generated

## Network requirements



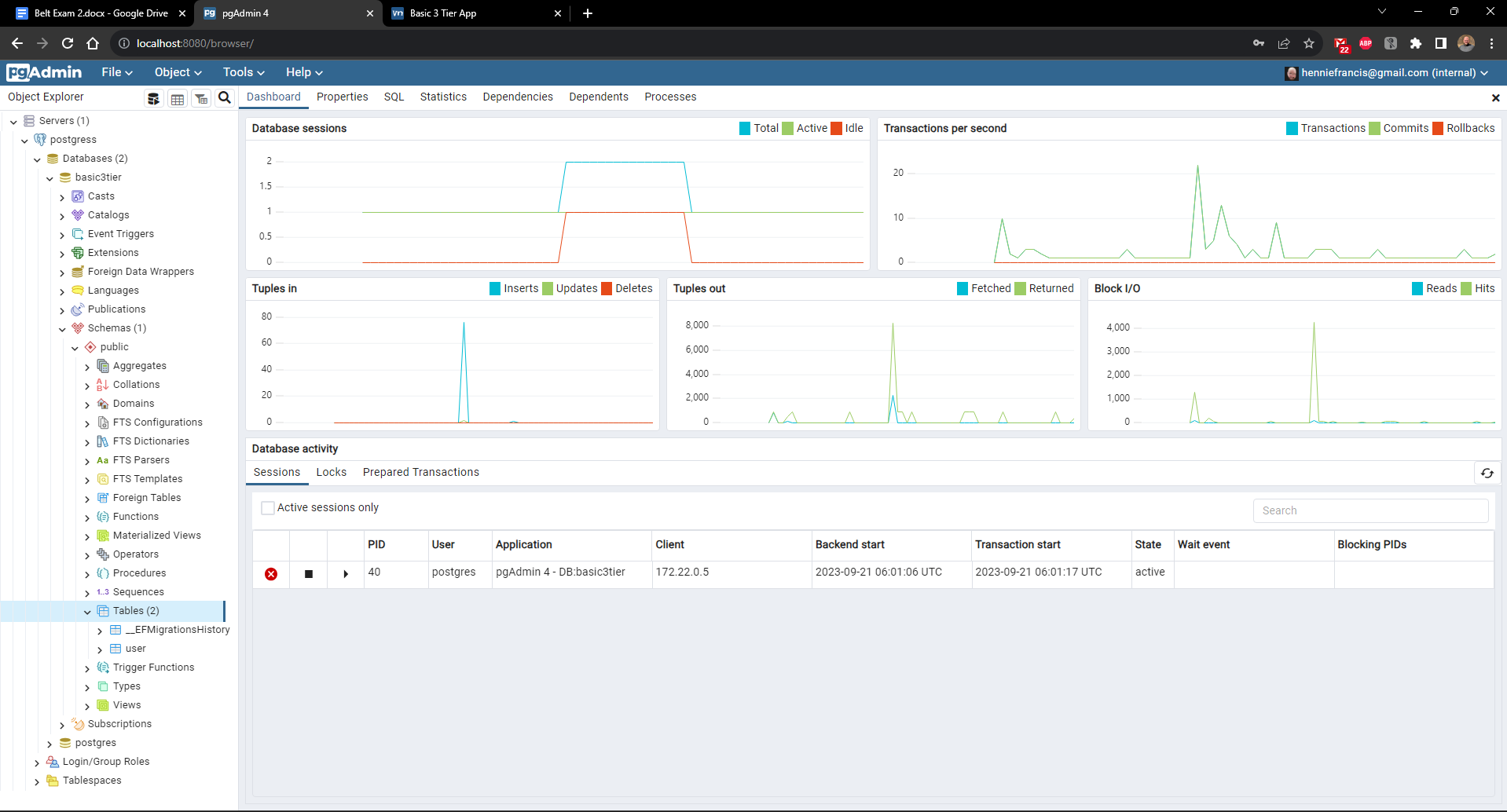




A computer screen shot of a program

Description automatically generated

## Verification that Application is Running



A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

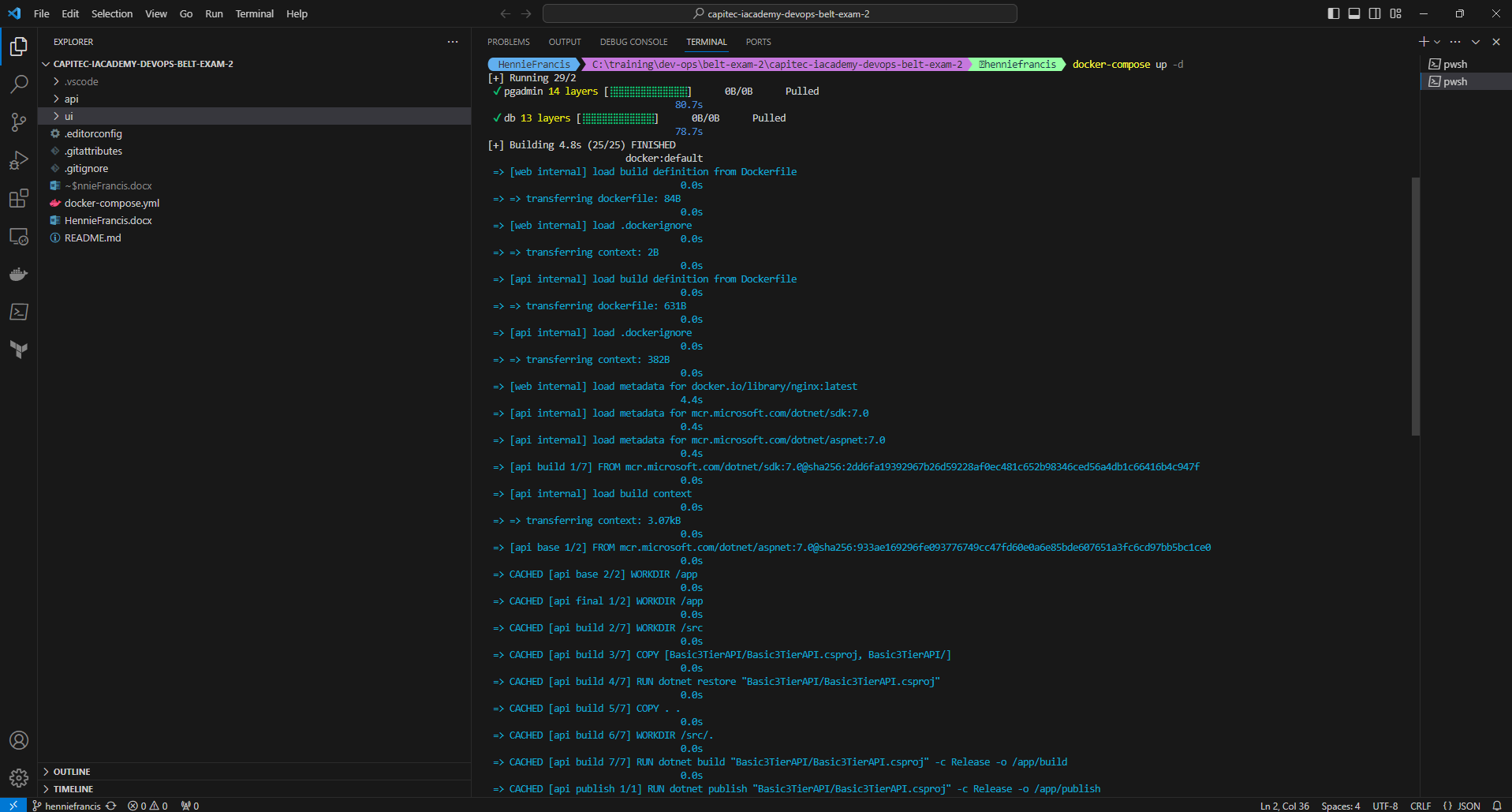
A screenshot of a computer

Description automatically generated

# Question 2:

## Deploy Application using Docker-compose

Solution inside the docker-compose.yml



A screenshot of a computer program

Description automatically generated

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A screenshot of a computer

Description automatically generated

# Question 3:

## General Kubectl Operations

### Switching Kubectl to Rancher

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### Create a Namespace in Rancher

A screenshot of a computer

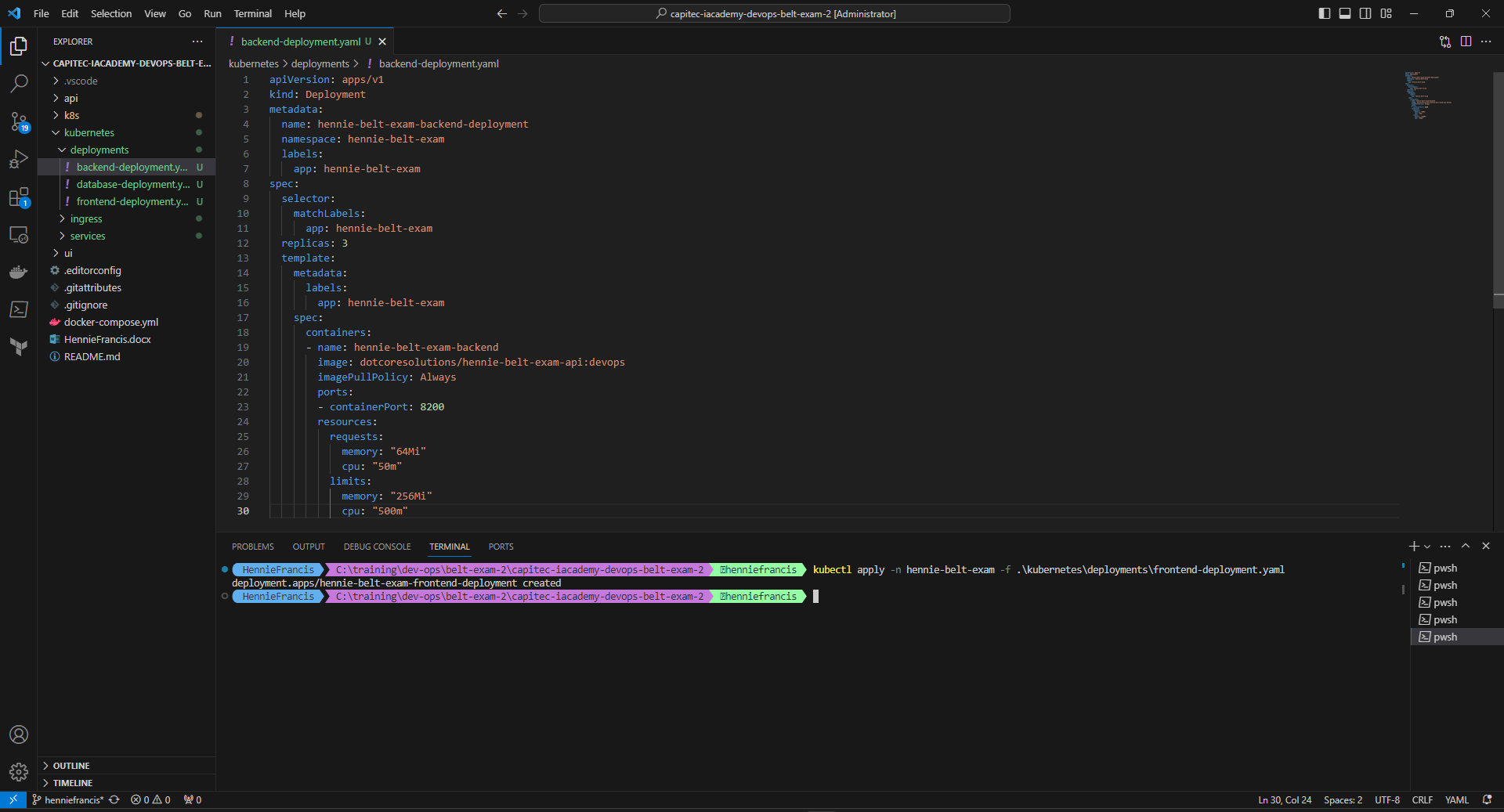
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Description automatically generated

## Deployment Files

### Frontend



### Frontend Service

A screenshot of a computer

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### Backend

A screenshot of a computer program

Description automatically generated

### Backend Service

A screenshot of a computer

Description automatically generated

### Database

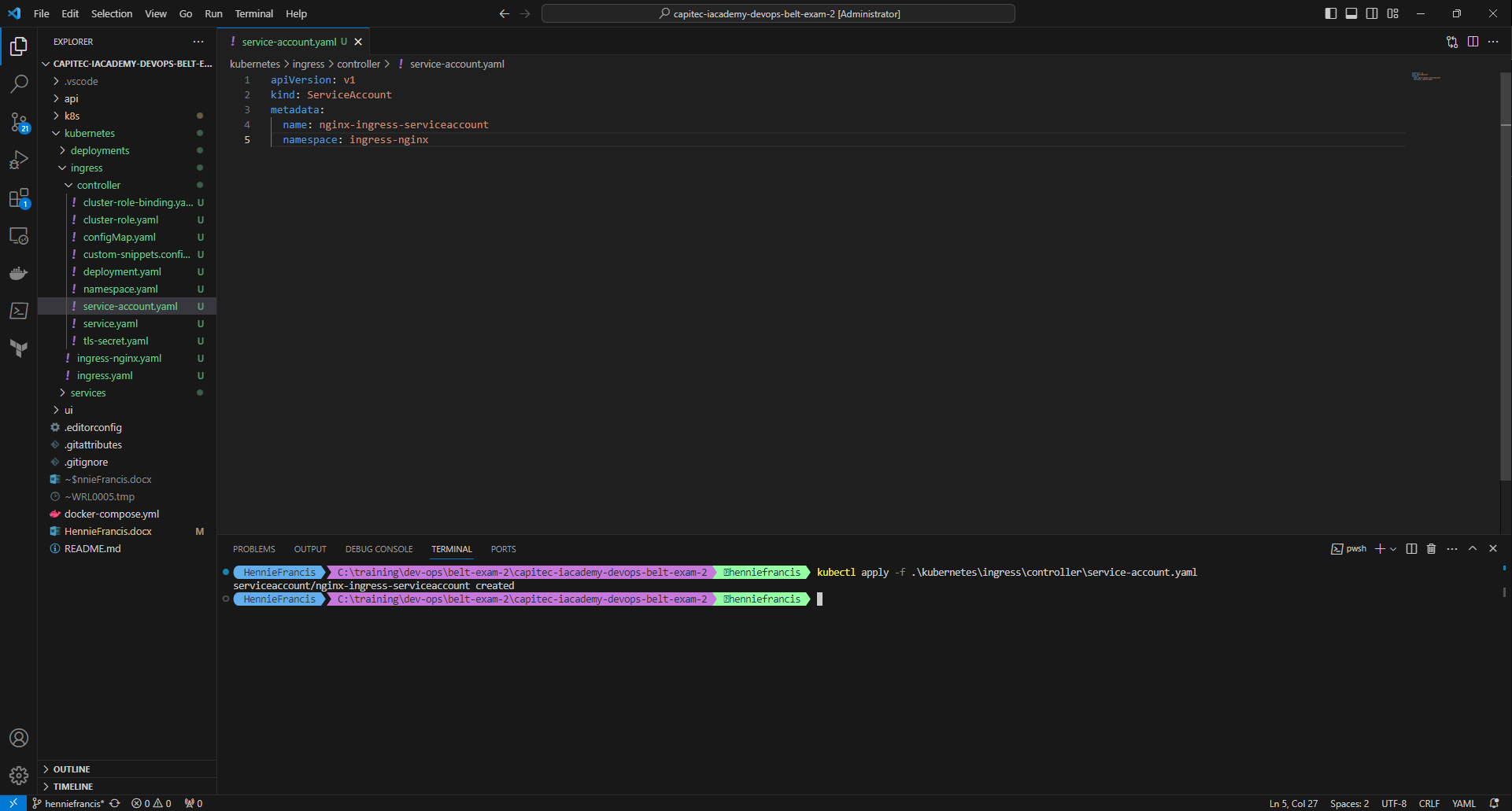
A screenshot of a computer program

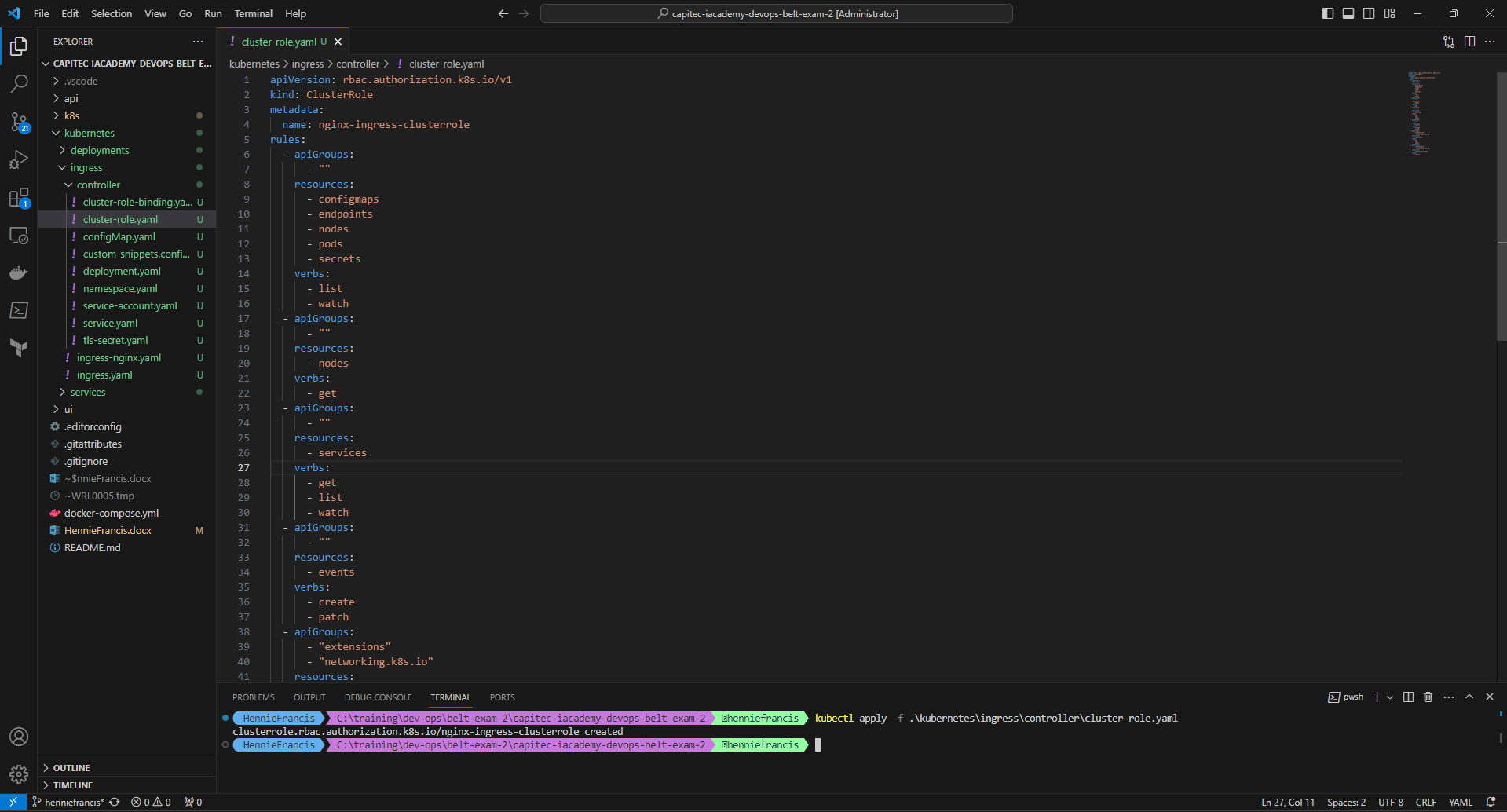
Description automatically generated

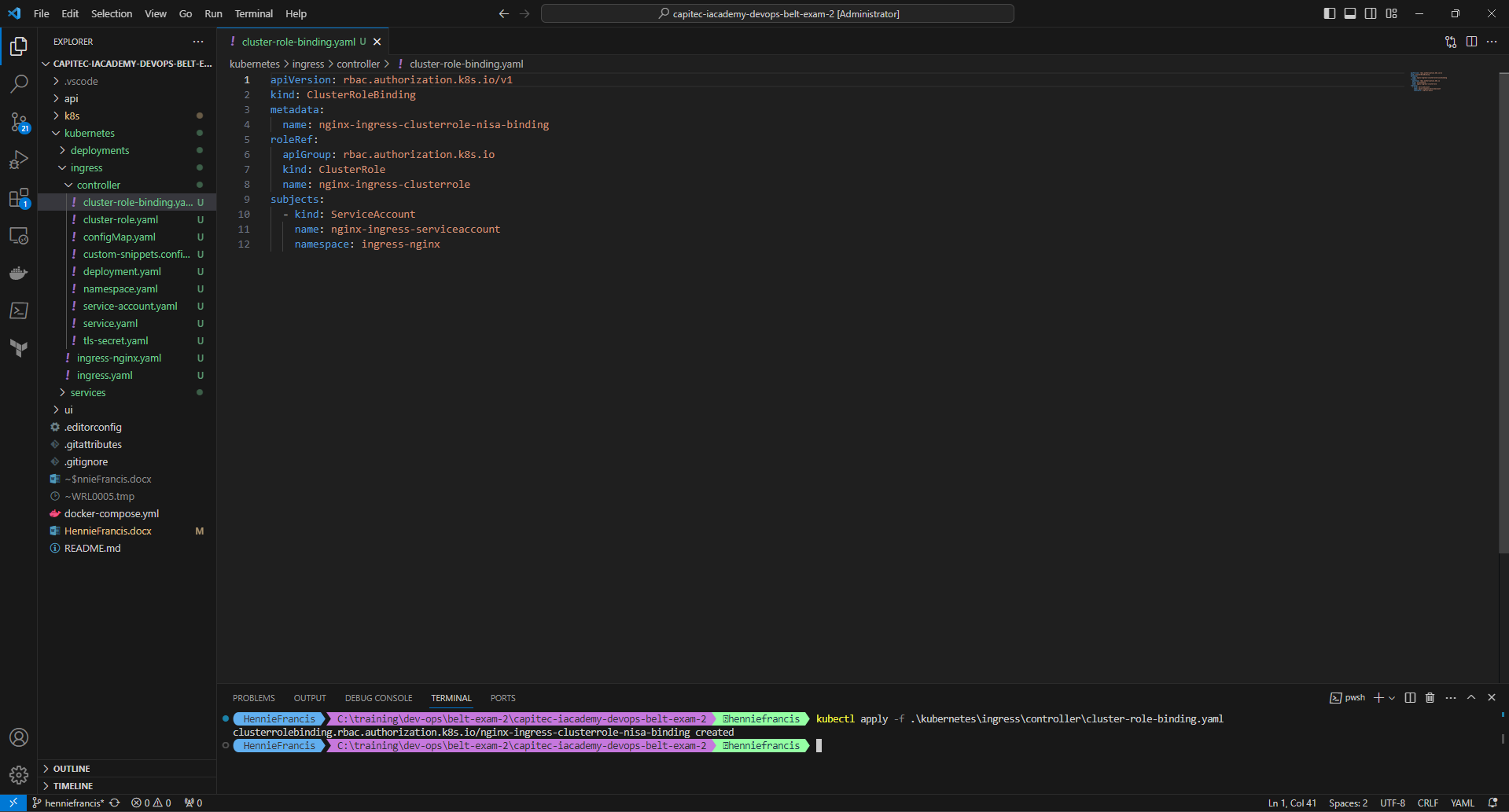
### Ingress Controller

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A screenshot of a computer program

Description automatically generated

A screenshot of a computer program

Description automatically generated

A screenshot of a computer program

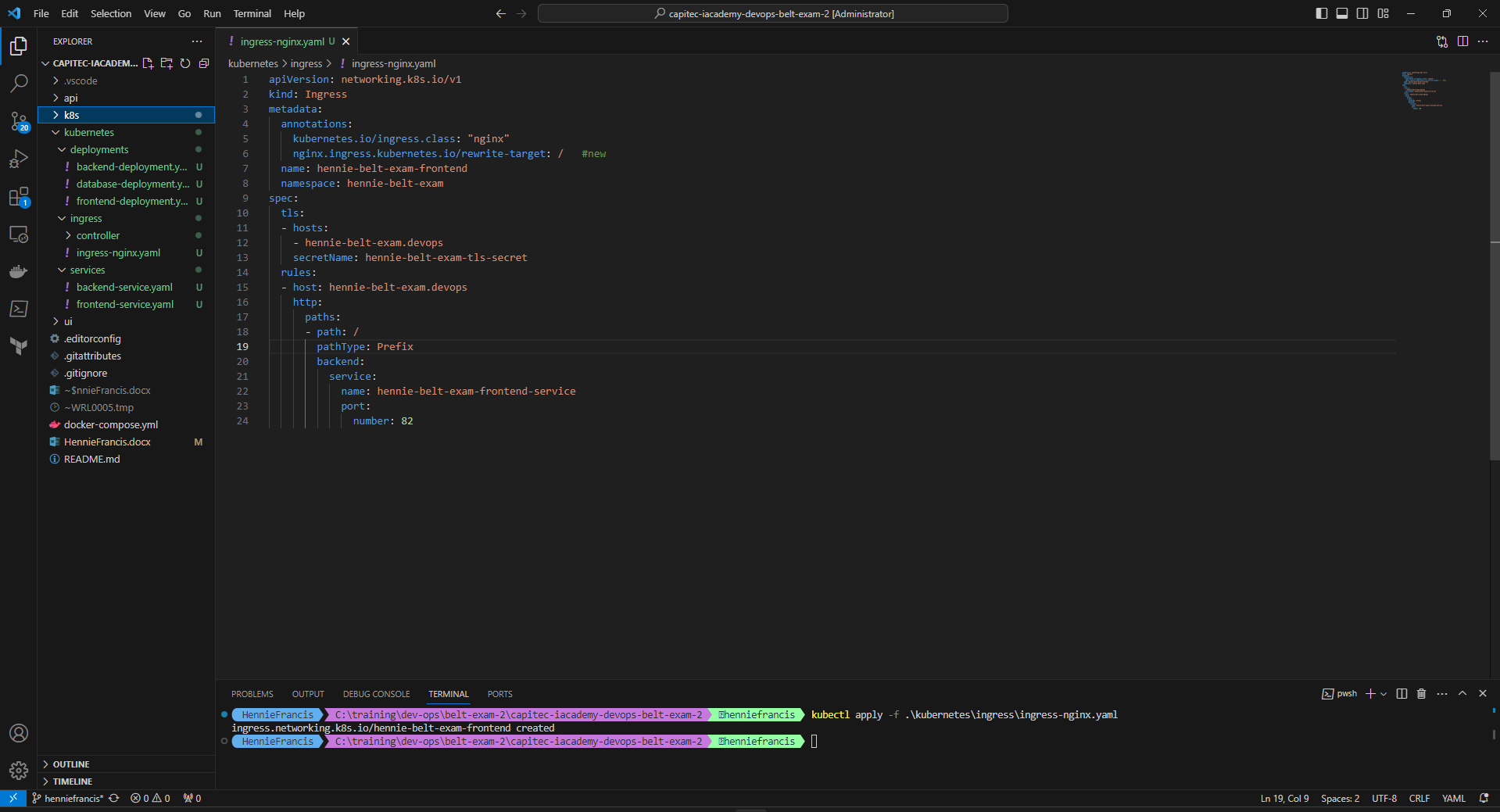
Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated



### Overview