Instructions: Please answer the following questions making sure to write your answers legibly on the second page. The code below is a segment of a python flask application that we will make changes to.

- Since we are writing python code please be careful about spacing / indent. Leave enough room that it is obvious when you want things indented.
- Make sure to write legibly.

```
from flask import (
    Flask,
    request,
    Response
)
from data_processor import (
  api_status_code,
  api_data_interface
app = Flask(__name__)
# WHERE YOUR ANSWER WILL BE
@app.route('/api/v1/data', methods=['GET'])
def return_data_from_api_interface():
    Main Data route for our flask app
    text_data = api_data_interface()
    return Response(data, status=200,
                    headers={'Content-type': 'text/html'})
if __name__ == '__main__':
    app.run(host='0.0.0.0', port=5000)
```

We also have the following makefile. Note that the docker image, via a CMD statement starts the flask app as the default command.

```
IMAGE_NAME=flask_app

.PHONY=build run_flask
build:
    docker build . -t $(IMAGE_NAME)

run_flask: build
    docker run $(IMAGE_NAME)
```

- 1. Our flask server puts logs in the following location /logs/flask.log. When there is an error in our log file the phrase FLASKERROR appears on the line. Please write make commands (you can ignore modifying the .PHONY line) which do the following:
 - (a) Write a make command that returns the last 10 errors from the log (Name it last_10_errors).

(b) Write a make command that returns the count of the number of lines in the log that have errors (name it total_errors).

- 2. We want to write a route (/api/v1/status) which responds to a GET request and returns a status code which tells us if the API is working or not. The imported function api_status_code returns 0 if the API is down, 1 if the API is broken and 2 if the API is having issues (but still running).
 - Please write a complete route (including all required decorators, etc) that can be placed into the file.
 - It should return status code 200 if the API is working (0)
 - It should return a status code 500 if the API is failing (1)
 - It should return a 503 if the API is having issues (2)
 - Nothing needs to be in the body or headers.
 - No need for comments or doc strings.