hw 2, task 1

1. Package your applications as Docker images.
2. For each of your services:
    - Create a *Docker* file that would contain instruction on how to package your project.
    - Build a docker image and run it, mapping an external port to verify that application can be started and respond to requests.

Solution

First, I created a network for all containers to live in:

```
docker network create my-network
```

Then I performed following commands to spin up the resource-service:

1. run resource db:

    ```
    docker build -t resource-db-image ./db_docker
    ```

    ```
    docker run -d --name=resource-db-container --network=my-network resource-db-image
    ```

2. run resource service:

    ```
    docker build -t resource-service-image .
    ```

    ```
    docker run -dp 8080:8080 --name=resource-service-container --network=my-network resource-service-image
    ```

Finally, I performed following commands to spin up the song-service:

1. run song db:

    ```
    docker build -t song-db-image ./db_docker
    ```

    ```
    docker run -d --name=song-db-container --network=my-network song-db-image
    ```

2. run song service:

    ```
    docker build -t song-service-image .
    ```

    ```
    docker run -dp 8085:8080 --name=song-service-container --network=my-network song-service-image
    ```