Step 1 - Script

Write a script in any language you like, which does the following:

- 1. Query "Rick and Morty" API and look for all characters that meets the following conditions:
 - a. Species is "Human"
 - b. Status is "Alive"
 - c. Origin is "Earth"
- 2. Make a list of the results that will include:
 - a Name
 - b. Location.
 - c. Image link.
- 3. Write the results to a csv file.

For example:

Name, Location, Image

Rick Sanchez, Earth, https://rickandmortyapi.com/api/character/avatar/1.jpeg

API Docs can be found here:

https://rickandmortyapi.com/documentation/#rest

Step 2 - Dockerized App

Lets Improve our original script and convert it to REST application (same or different language)

Create REST API endpoints to fetch the data collected above and return JSON as response.

Please provide /healthcheck REST API endpoint

- Create Dockerfile that will run your application
- Update README.md file that's explains how to build and run your Docker Image
- Update README.md with the REST API endpoints you created and how to fetch data

Step 3 - K8s

These steps can be accomplished on Kind/minikube locally

- Create folder called yamls
- Please provide Deployment.yaml , Service.yaml , Ingress.yaml for your application
- Update README.md on how to deploy the manifests to kubernetes and how to get the endpoints

Step 4 - Helm

- Create Helm folder
- Create Helm chart with proper resources and values.yaml
- Update README.md on how to deploy the Helm chart

Step 5 - Github Actions

- Create a workflow that will initiate small kubernetes cluster on Github Actions Runner
- Deploy the application to the local cluster created
- Run some tests to your application endpoints
- Update README.md with explanation about the workflow & jobs & steps

the workflow once and he will check the action workflow output .