**PE03: Programming Exercise**

Jenkins, an open-source automation server, facilitates continuous integration and continuous delivery (CI/CD). By integrating Docker and Docker Compose, Jenkins enables automated building, testing, and deployment of containerized applications, streamlining the development workflow and ensuring consistent environments across all stages of the software development lifecycle.

First, we set up our docker file and docker-compose. Compared to the existing file of HOS from this week, we changed the external port to 8010, and the internal data folder name to `jenkins-internal-folder`.

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Next, we used docker-compose-up to build the docker with Jenkins.

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After that, we continue setting up the Jenkins configuration on [http://localhost:8010](http://localhost:8010/).

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