Question 1 – Create Jenkin CI/CD pipeline to build docker image for a Maven project [15 marks]

Provide screenshot to show that manually building docker image is successful [2 marks]

Provide screenshot to show that the generated image in step 2 can run properly [1 mark]

Provide your project GitHub URL so that you professor can view Dockerfile and Jenkinsfile [1 mark]

Screenshot of your pipeline build history [1 mark]

1. Dockerfile [2 marks]
2. Provide screenshot to show that manually building docker image is successful [2 marks]
3. Provide screenshot to show that the generated image in step 2 can run properly [1 mark]
4. Jenkinsfile
   1. Check out stage [1 mark]
   2. Build maven project stage [1 mark]
   3. Add your Docker Hub’s password to Jenkins Credentials [2 marks]
   4. Docker build stage [1 mark]
   5. Docker login stage [2 mark]
   6. Docker push stage [1 mark]
5. Provide your project GitHub URL so that you professor can view Dockerfile and Jenkinsfile [1 mark]
6. Screenshot of your pipeline build history [1 mark]