SIT223 task 6.1c: Amit Kafe - pipeline definition

Continuous Integration and Deployment with Jenkins and GitHub

```
pipeline {
 agent any
 environment {
   DIRECTORY_PATH = '/Users/amitkafe/Documents/university/year 2/trimester
2/SIT223/task 5.1'
   TESTING_ENVIRONMENT = 'practicetest'
   PRODUCTION_ENVIRONMENT = 'Amit-Production'
 }
 stages {
   stage('Build') {
     steps {
       echo "Fetch the source code from the directory path: ${env.DIRECTORY_PATH}"
       echo "Compile the code and generate any necessary artifacts"
     }
   }
   stage('Test') {
     steps {
       echo 'Running unit tests'
       echo 'Running integration tests'
     }
     post {
       success {
         mail to: "amitkafe5@gmail.com",
           subject: "Test Stage: Successful",
```

```
body: "The Test stage was successful."
   }
   failure {
     mail to: "amitkafe5@gmail.com",
        subject: "Test Stage: Failed",
       body: "The Test stage failed."
   }
 }
}
stage('Code Quality Check') {
  steps {
    echo 'Checking the quality of the code'
 }
}
stage('Security Scan') {
  steps {
    echo 'Running security scans'
 }
  post {
    success {
     mail to: "amitkafe5@gmail.com",
       subject: "Security Scan: Successful",
       body: "The Security Scan was successful."
   }
    failure {
     mail to: "amitkafe5@gmail.com",
       subject: "Security Scan: Failed",
       body: "The Security Scan failed."
```

```
}
     }
    }
   stage('Deploy') {
     steps {
       echo "Deploy the application to the testing environment:
${env.TESTING_ENVIRONMENT}"
     }
   }
    stage('Approval') {
     steps {
       echo 'Waiting for manual approval...'
       sleep 10
     }
    }
    stage('Deploy to Production') {
     steps {
       echo "Deploying the code to the production environment:
\verb| \$ \{env.PRODUCTION\_ENVIRONMENT| | |
     }
   }
  }
  post {
    success {
     mail to: "amitkafe5@gmail.com",
       subject: "Build Status: Successful",
       body: "The entire pipeline execution was successful."
   }
   failure {
```