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PSI-ASDE Batch 6

Q1.

// 1. Create Maven Project

```
mvn archetype:generate -DgroupId=com.sapient.week1 -DartifactId=JavaFirstProject  
-DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false
```

// 2. Created junit test cases in project

// 3. Create a local git repository

```
cd JavaFirstProject\  
git init
```

// 4. Commit the project to git repo

```
git add .  
git commit -m "first commit"
```

// 5. Push Project to git

```
git push origin <remote_repo_branch_name>
```

// 6. Run Maven Commands on Terminal

```
mvn compile  
mvn test  
mvn package
```

Q2.

//Jenkins Pipeline Job Creation Steps

1. Create a Jenkinsfile in root folder of git repository (name it Jenkinsfile [no extension])
The file is already created: JavaFirstProject/Jenkinsfile
Our Jenkins pipeline has 3 stages: Compile, Test and Package.
2. Push the code to remote repository
3. Open jenkins (localhost:8080)
4. Click on New Item
5. Give a name to the job
6. Choose Pipeline
7. Click Ok to create the Pipeline Job
8. Next Configure Job will open
9. Go to Build triggers and Select Poll SCM
Add "* * * * *" (without quotes) in the Schedule box to set the pipeline to check the git repo every minute and run the pipeline if any code changes.
10. Go to Pipeline Section
11. From Definition dropdown select "Pipeline Script from SCM"
12. Under SCM dropdown select "Git"
13. Enter the github/bitbucket repository url (with .git at the end) in Repository URL textbox.
14. Select your github/bitbucket credentials.
If credentials are not configured then click on Add->Jenkins.
A dialog box will open. Enter username and password and click Add.
15. Specify the branch of the code inside Branch Specifier
16. Under Script path, the textbox should contain "Jenkinsfile" (as in step 1 we created a Jenkinsfile in git root directory)
17. Save and Apply
18. Wait for a minute for Jenkins Pipeline to check the remote repo for code change and run build automatically. Otherwise click on Build Now.
19. To check the console output of a build
click on the build number in Build History
Click on Console output

Q3.

Run Ques3JavaProject\src\com\sapient\Ques3.java

It is interactive mode.