1. Go to dashboard. > create workspace
   1. Select Source: new from blank
   2. Select Workspace: create new workspace from stack
      1. Select stack authoring
      2. Type in: FROM codenvy/ubuntu\_jdk8\_x11
   3. Configure workspace: type in desired workspace name
   4. Template: select blank-project
   5. Project Metadata: Name: DyeHard, description is optional
2. Delete current folder
3. Click worckspace on the top menu > Create Project
   1. Choose Maven under JAVA
   2. Name it DyeHard
   3. Click next
   4. Artifact ID: dyehard
   5. Group ID: dyehard
   6. Verion: 1.0
   7. Packaging: JAR
   8. Click create
4. Right click on DyeHard folder > create new folder > name it lib
   1. Go to terminal and navigate to lib
      1. cd Dyehard/lib/
   2. Inside terminal run this:

git clone <https://kulsoomm@bitbucket.org/kulsoomm/codenvyfiles.git>

git clone https://bitbucket.org/kulsoomm/codenvyfiles.git

* 1. get the OOAPI library from codenvyfiles folder to lib folder using one of the following methods
     1. Run this command: mv codenvyfiles/DyeHardOOAPI.jar . ;or
     2. Using the file explorer
  2. Then upload DyeHardProceduralAPI.jar (the regular way)
     1. Go to Project > upload file

1. Go to src/Main/Java
   1. Create java package called dyehard
   2. Inside dyehard package, upload Demo0.java, Run.java, Main.java
   3. Run this command: mv /projects/DyeHard/lib/codenvyfiles/resources/ projects/DyeHard/src/main/java/main/
      1. Or create a folder named main under src/main/java and move resources folder from codenvyfiles to this(newly created main) folder.
2. Make sure that jar libraries are inside lib folder and renamed to DyeHardOOAPI-1.0.jar and proceduralAPI-1.0.jar
3. In the terminal type “cd DyeHard” and then

mvn install:install-file -Dfile=/projects/DyeHard/lib/DyeHardOOAPI-1.0.jar -DgroupId=Engine -DartifactId=DyeHardOOAPI -Dversion=1.0 -Dpackaging=jar

mvn install:install-file -Dfile=/projects/DyeHard/lib/proceduralAPI-1.0.jar -DgroupId=dyeHardProceduralAPI -DartifactId=proceduralAPI -Dversion=1.0 -Dpackaging=jar

1. create Maven command
   1. name: build
   2. preview URL: http://${server.port.6080}
2. run build
3. After build is done running, click on the preview url (it will open a noVNC window)
4. In the noVNC window
   1. Right click and choose Terminal
   2. Do the following commands
      1. Cd DyeHard/target
      2. Java –jar dyehard-1.0-SNAPSHOT.jar
5. If you make a change in the code, exit it noVNC, build the project again, click on the preview URL, and do those commands in noVNC all over again