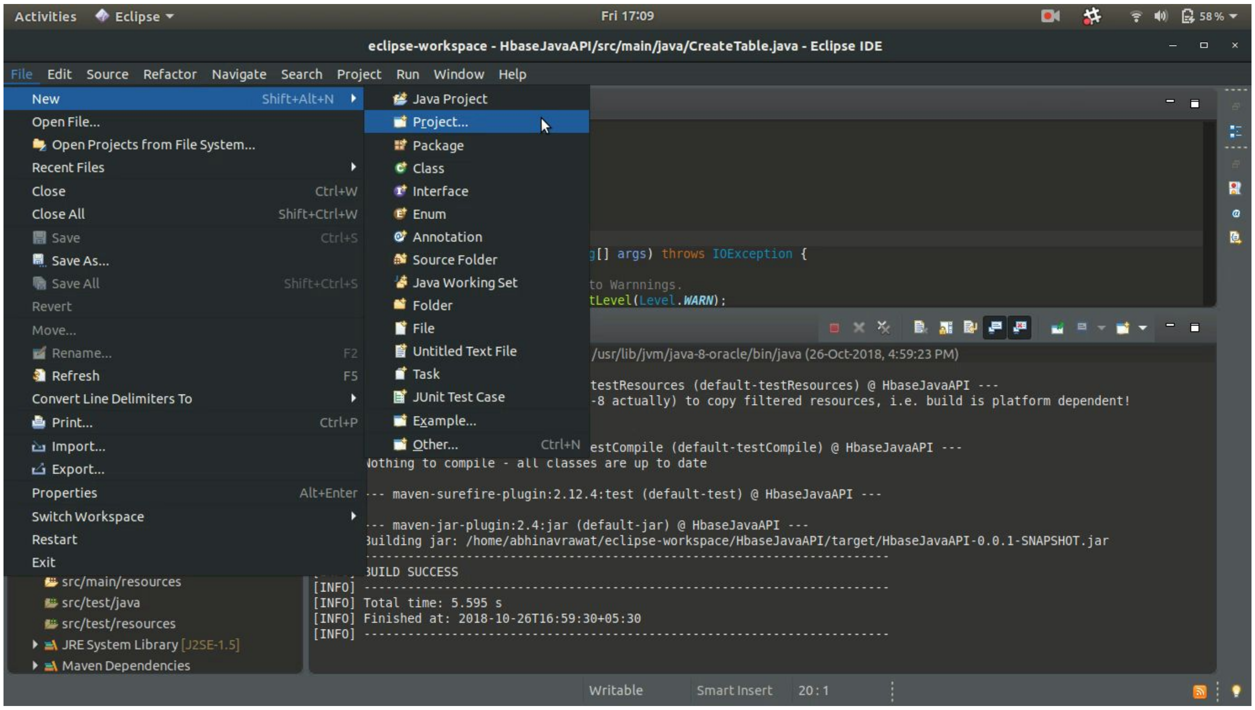
Maven Project Setup

The complete Eclipse project is provided to you in the segment. You can directly import it to your eclipse workspace. If you want to create your own maven project, follow the below steps.

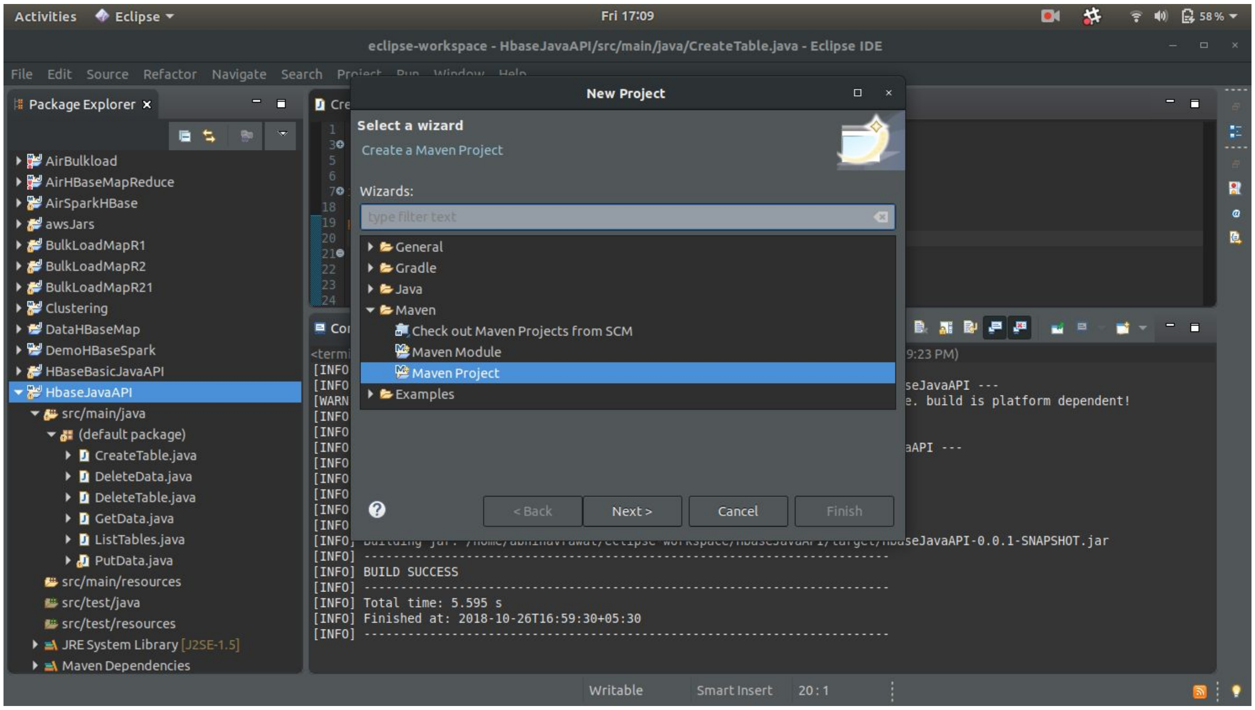
1. From your Ecplise IDE, Click on **New > Project**



```
g[] args) throws IOException {
to Warnnings.
tLevel(Level.WARN);
```

```
/usr/lib/jvm/java-8-oracle/bin/java (26-Oct-2018, 4:59:23 PM)
testResources (default-testResources) @ HbaseJavaAPI ---
-8 actually) to copy filtered resources, i.e. build is platform dependent!
estCompile (default-testCompile) @ HbaseJavaAPI ---
Nothing to compile - all classes are up to date
--- maven-surefire-plugin:2.12.4:test (default-test) @ HbaseJavaAPI ---
--- maven-jar-plugin:2.4:jar (default-jar) @ HbaseJavaAPI ---
Building jar: /home/abhinavrawat/eclipse-workspace/HbaseJavaAPI/target/HbaseJavaAPI-0.0.1-SNAPSHOT.jar
------------------------------------------------------------------------
BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time: 5.595 s
[INFO] Finished at: 2018-10-26T16:59:30+05:30
[INFO] ------------------------------------------------------------------------
```

2. Choose **Maven Project**



New Project

Select a wizard

Create a Maven Project

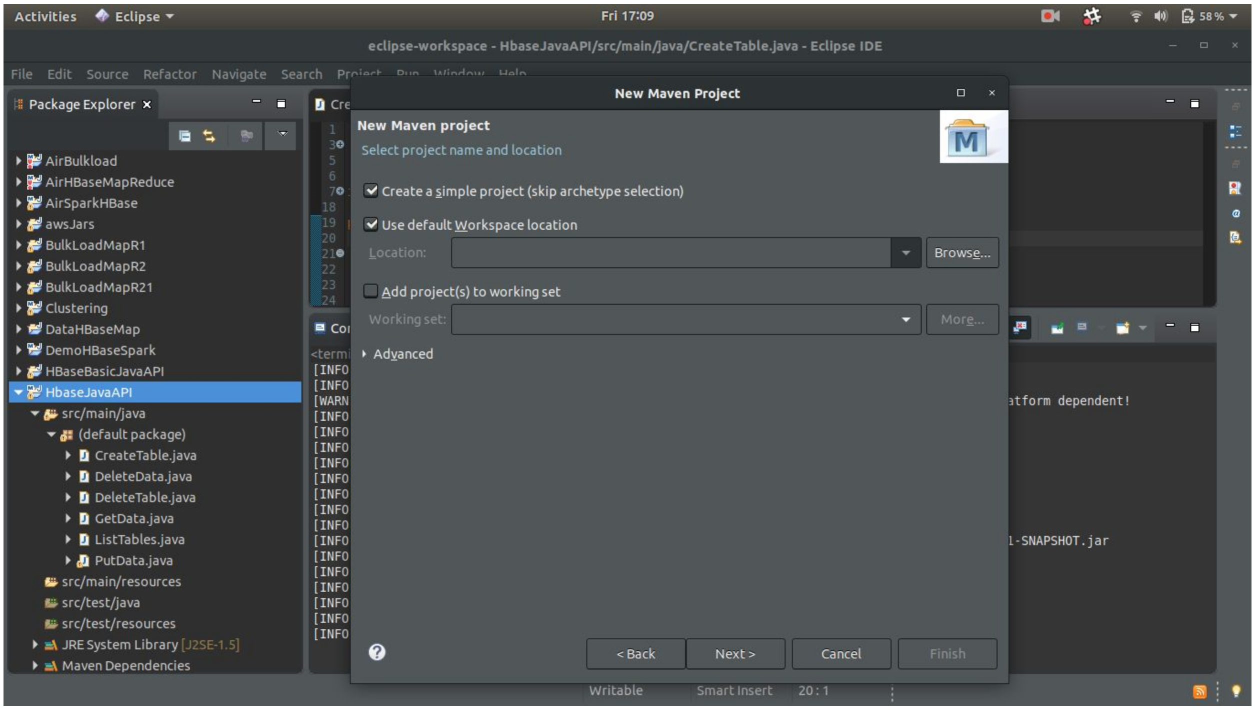
Wizards:

type filter text

- General
- Gradle
- Java
- Maven
  - Check out Maven Projects from SCM
  - Maven Module
  - Maven Project
- Examples

```
9:23 PM)
seJavaAPI ---
e. build is platform dependent!
aAPI ---
[INFO] Building jar: /home/abhinavrawat/eclipse-workspace/HbaseJavaAPI/target/HbaseJavaAPI-0.0.1-SNAPSHOT.jar
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time: 5.595 s
[INFO] Finished at: 2018-10-26T16:59:30+05:30
[INFO] ------------------------------------------------------------------------
```

3. Click on-> **Create a simple project**



New Maven Project

New Maven project

Select project name and location

☑ Create a simple project (skip archetype selection)

☑ Use default Workspace location

Location:

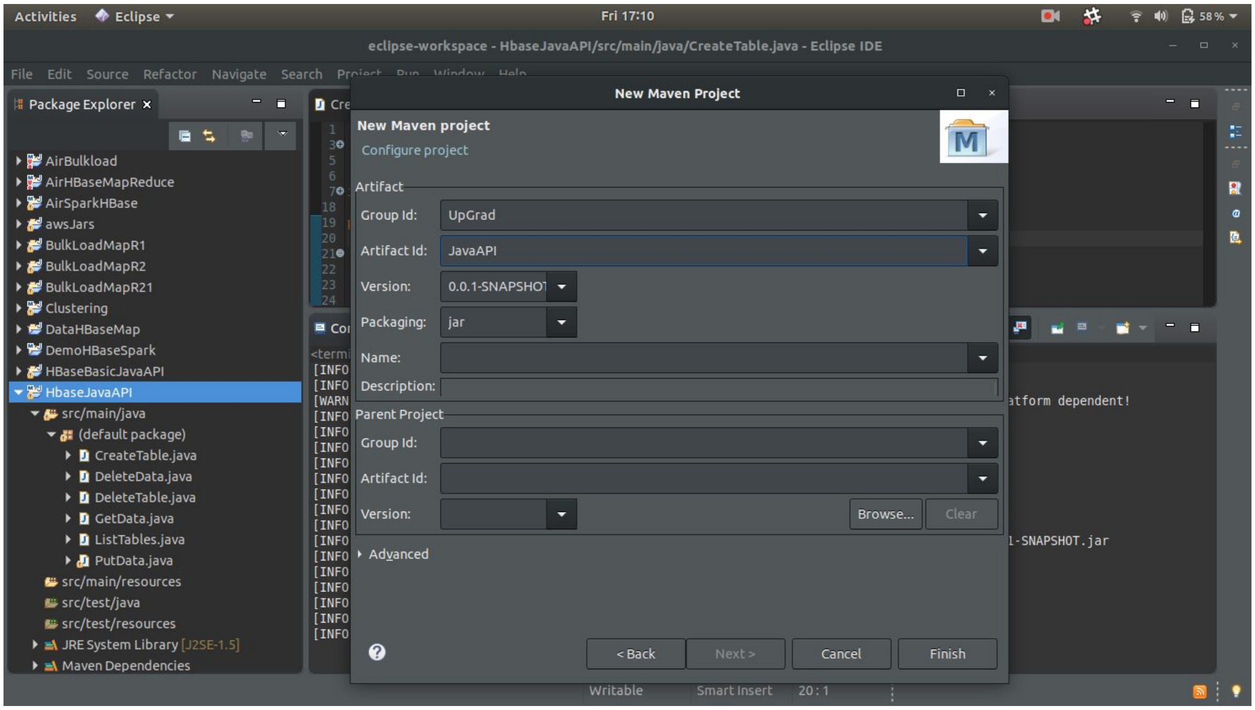
□ Add project(s) to working set

Working set:

Advanced

```
atform dependent!
1-SNAPSHOT.jar
```

4. Provide **Artifact ID** and **Group ID** and click on finish



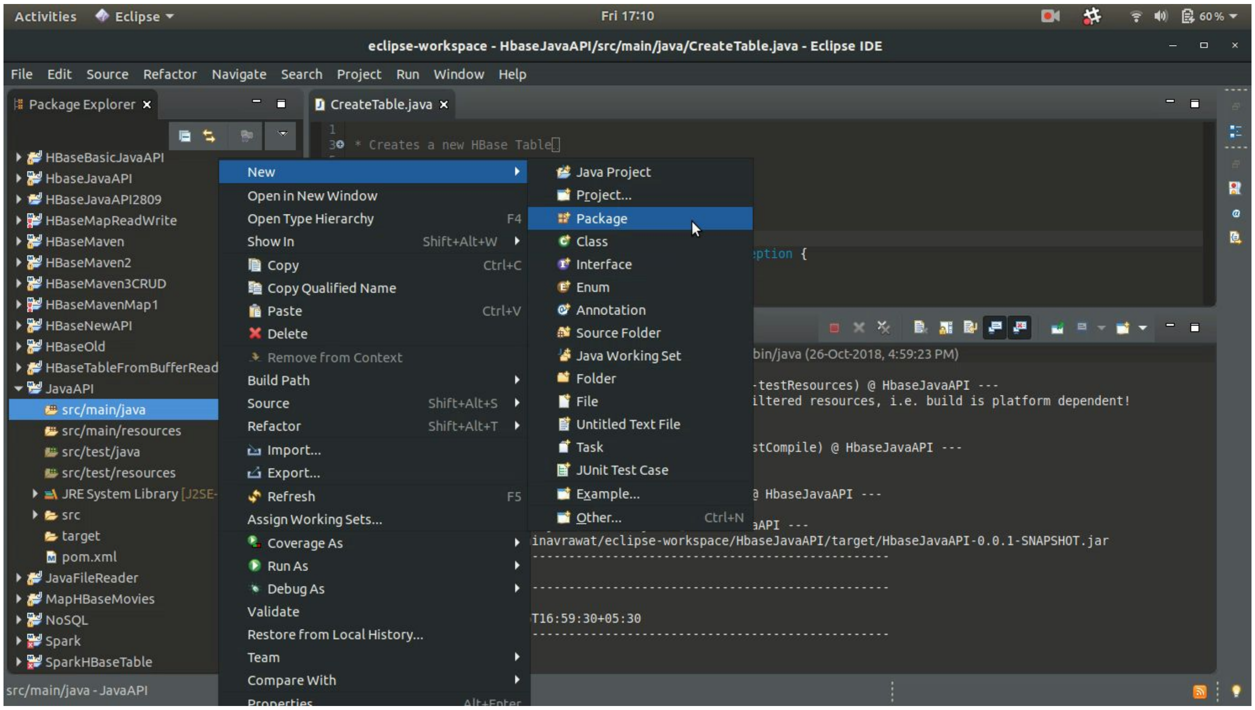
New Maven Project

New Maven project
Configure project

Artifact
Group Id: UpGrad
Artifact Id: JavaAPI
Version: 0.0.1-SNAPSHOT
Packaging: jar
Name:
Description:

Parent Project
Group Id:
Artifact Id:
Version:

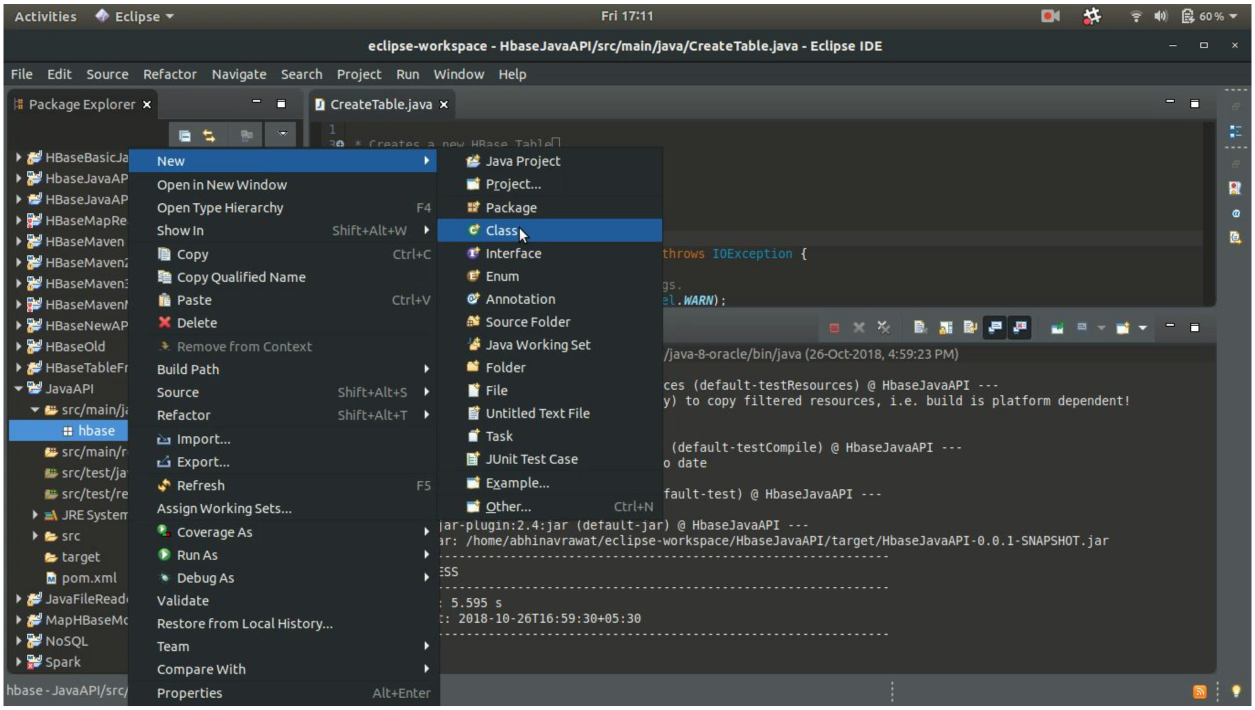
5. Now, by right-clicking on your project add a **package**.



```
3⊖ * Creates a new HBase Table
ption {
```

```
bin/java (26-Oct-2018, 4:59:23 PM)
-testResources) @ HbaseJavaAPI ---
iltered resources, i.e. build is platform dependent!
stCompile) @ HbaseJavaAPI ---
@ HbaseJavaAPI ---
aAPI ---
inavrawat/eclipse-workspace/HbaseJavaAPI/target/HbaseJavaAPI-0.0.1-SNAPSHOT.jar
------------------------------------------------------------------------
------------------------------------------------------------------------
T16:59:30+05:30
------------------------------------------------------------------------
```

6. Now you can add a class, by right-clicking on the package created above



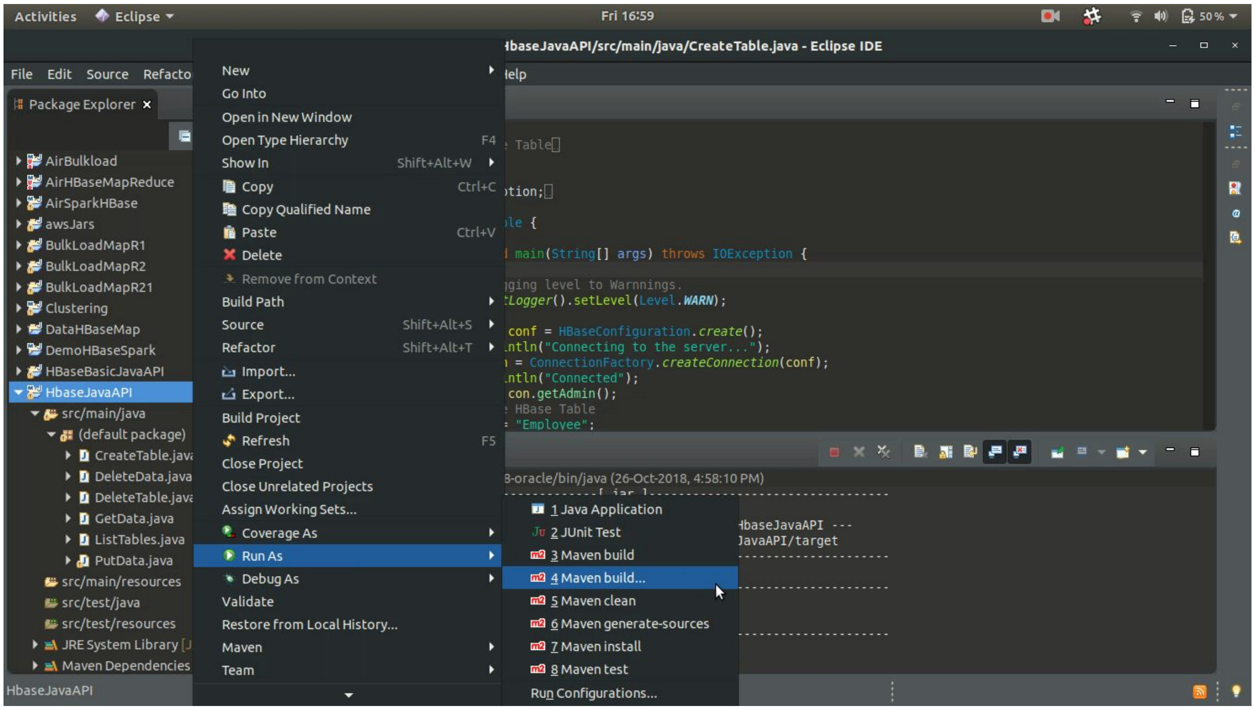
```
3⊖ * Creates a new HBase Table
throws IOException {
gs.
el.WARN);
```

```
/java-8-oracle/bin/java (26-Oct-2018, 4:59:23 PM)
ces (default-testResources) @ HbaseJavaAPI ---
y) to copy filtered resources, i.e. build is platform dependent!
 (default-testCompile) @ HbaseJavaAPI ---
o date
fault-test) @ HbaseJavaAPI ---
jar-plugin:2.4:jar (default-jar) @ HbaseJavaAPI ---
ar: /home/abhinavrawat/eclipse-workspace/HbaseJavaAPI/target/HbaseJavaAPI-0.0.1-SNAPSHOT.jar
------------------------------------------------------------------------
ESS
------------------------------------------------------------------------
: 5.595 s
: 2018-10-26T16:59:30+05:30
------------------------------------------------------------------------
```

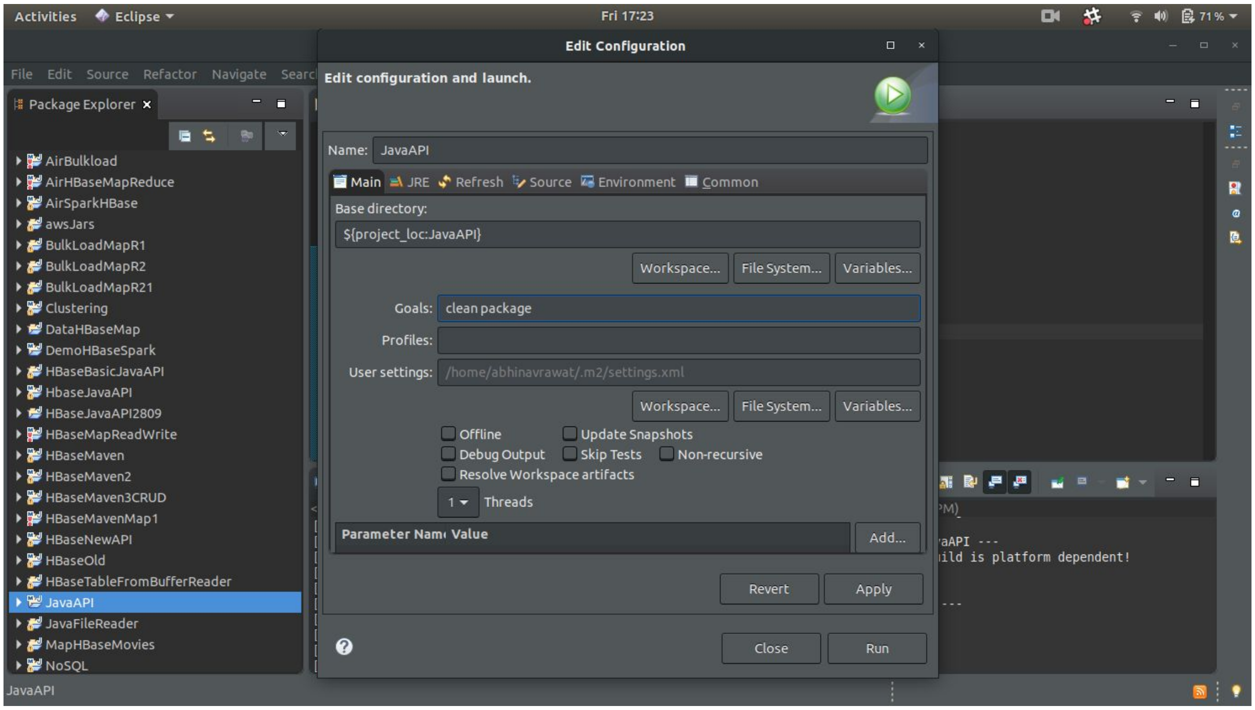
Note: Configure your pom file same as it is provided inside the eclipse project zip file.

Now once the project is ready

1. Build the eclipse project, by **right-clicking on it** > **Run As** > **Maven Build.**..



2. In the goal type **clean package**



Name: JavaAPI

Base directory: ${project_loc:JavaAPI}

Goals: clean package

Profiles:

User settings: /home/abhinavrawat/.m2/settings.xml

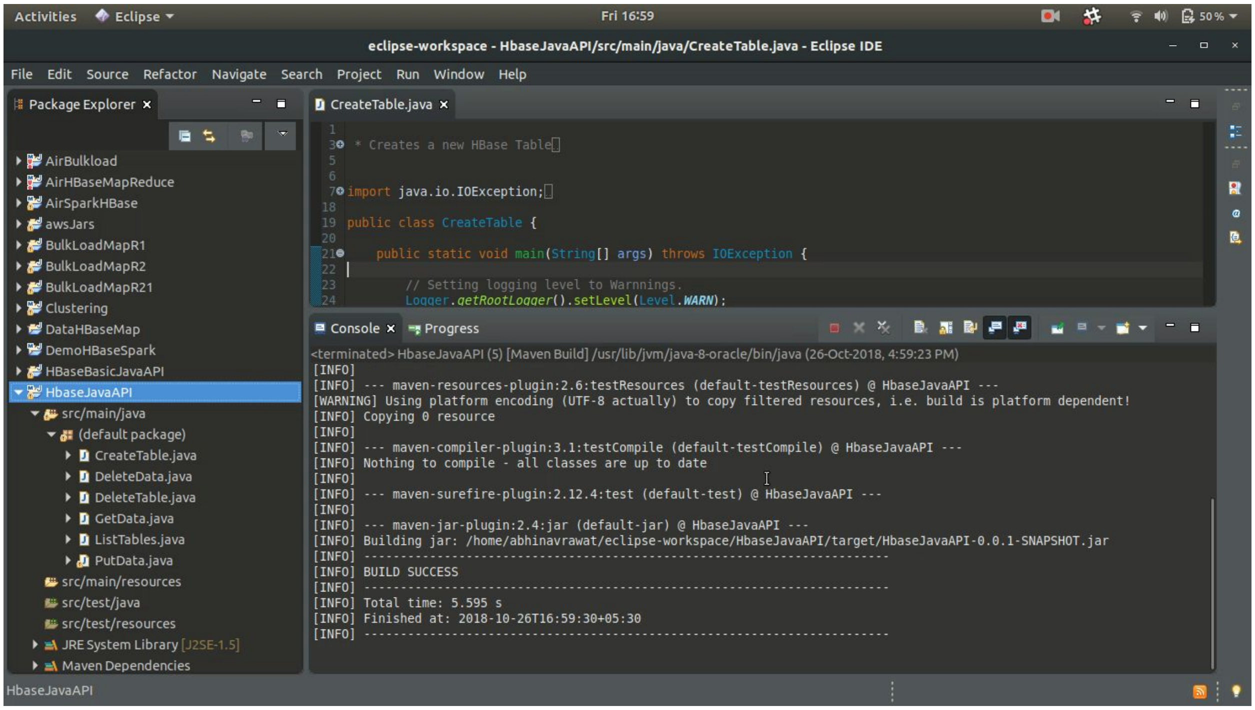
☐ Offline ☐ Update Snapshots
☐ Debug Output ☐ Skip Tests ☐ Non-recursive
☐ Resolve Workspace artifacts

1 Threads

Once the Build is successful. You can take your jar to your ec2 instance and run as shown by the Prof.

Note: In the demo, Prof. used default package for all the classes of her code, So she didn't specify the package name of the class while running the jar file. Hence if you have added a package to your project, please make sure to mention the package name with the class name. Look the below command for reference.

```
HADOOP_CLASSPATH=`hbase classpath` hadoop jar <jar file name> [packageName].<className> [args0]
[args1]...
```



```
 * Creates a new HBase Table


import java.io.IOException;

public class CreateTable {

    public static void main(String[] args) throws IOException {

        // Setting logging level to Warnnings.
        Logger.getRootLogger().setLevel(Level.WARN);
```

```
<terminated> HbaseJavaAPI (5) [Maven Build] /usr/lib/jvm/java-8-oracle/bin/java (26-Oct-2018, 4:59:23 PM)
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ HbaseJavaAPI ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ HbaseJavaAPI ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ HbaseJavaAPI ---
[INFO]
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ HbaseJavaAPI ---
[INFO] Building jar: /home/abhinavrawat/eclipse-workspace/HbaseJavaAPI/target/HbaseJavaAPI-0.0.1-SNAPSHOT.jar
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time: 5.595 s
[INFO] Finished at: 2018-10-26T16:59:30+05:30
[INFO] ------------------------------------------------------------------------
```