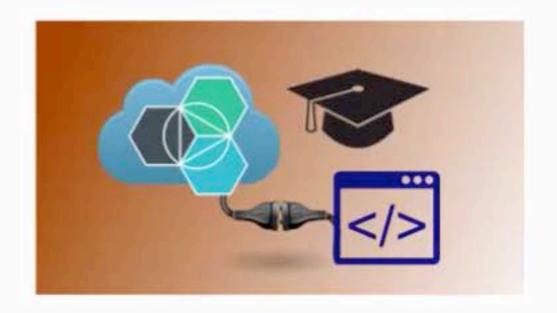
Worker Apps



Learning Objectives:

- 1. Concept of worker apps
- 2. Walkthrough of a JAVA worker app

Worker apps

Worker apps are processes that do not have a URL/route to it
 Used for background processing

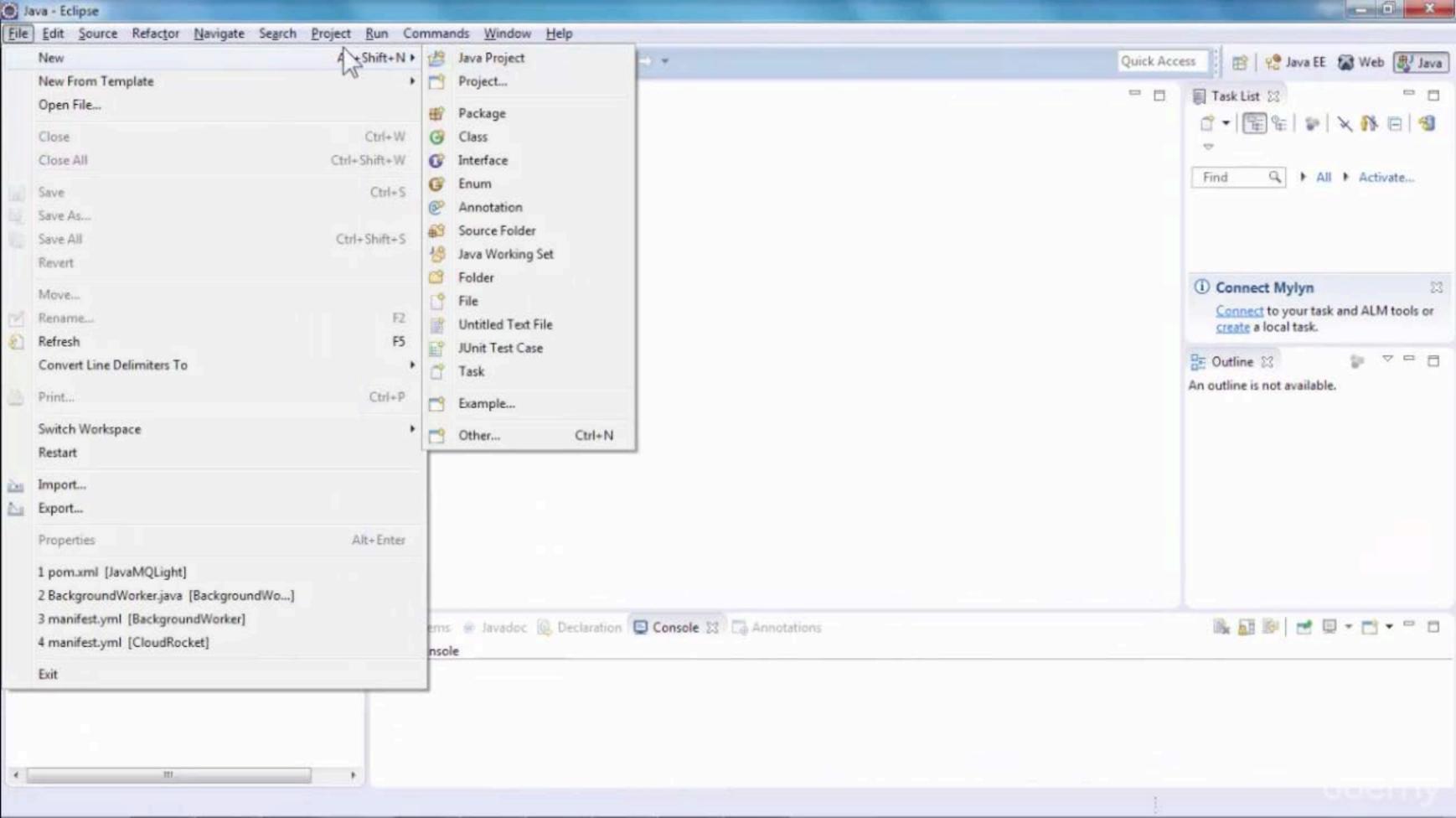
E.g., a worker app for sending email reminders t customers

Created by defining a standalone program e.g., Java class with main()

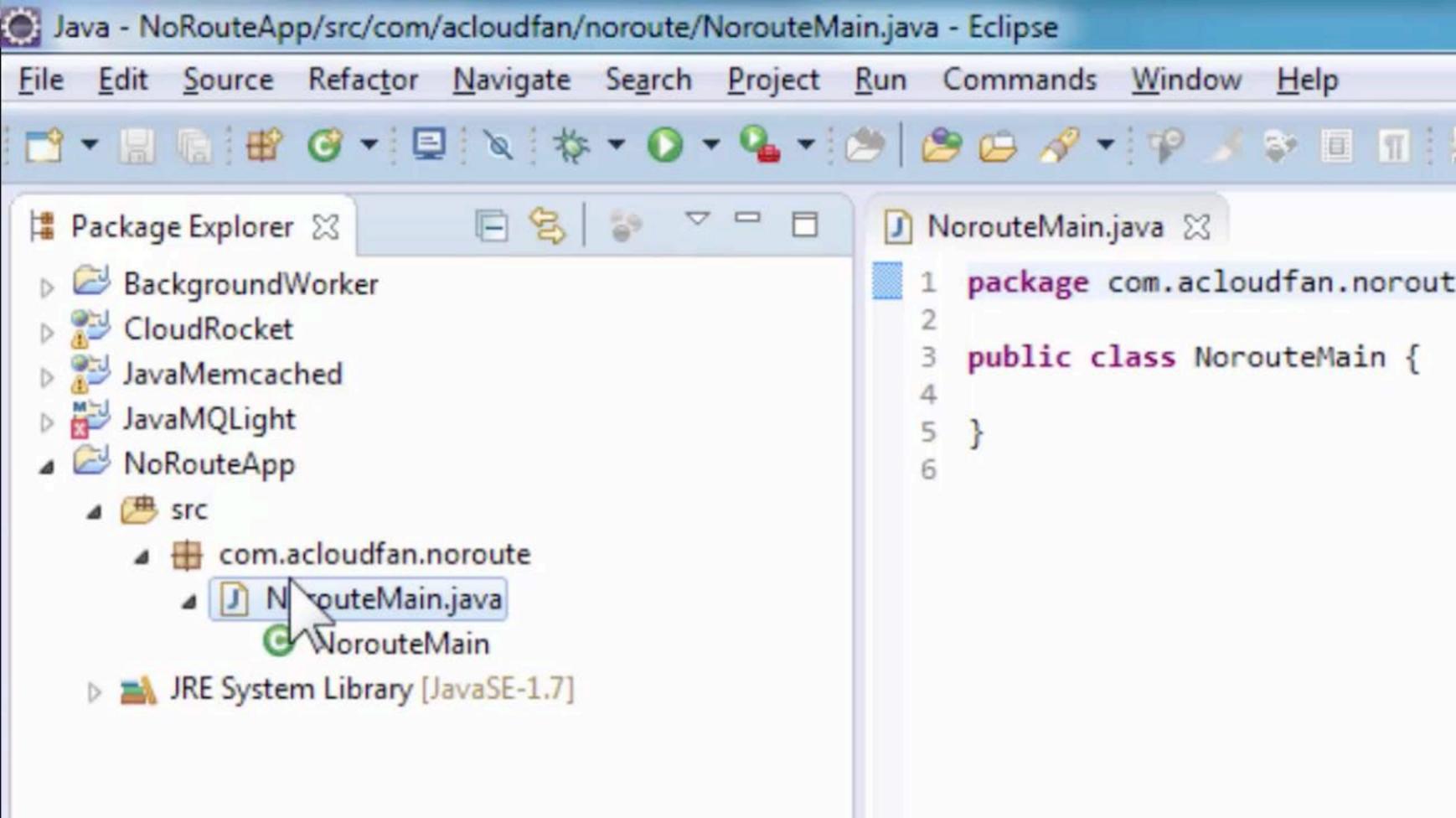
Pushed to cloud foundry with the -no-route

Worker application - creation

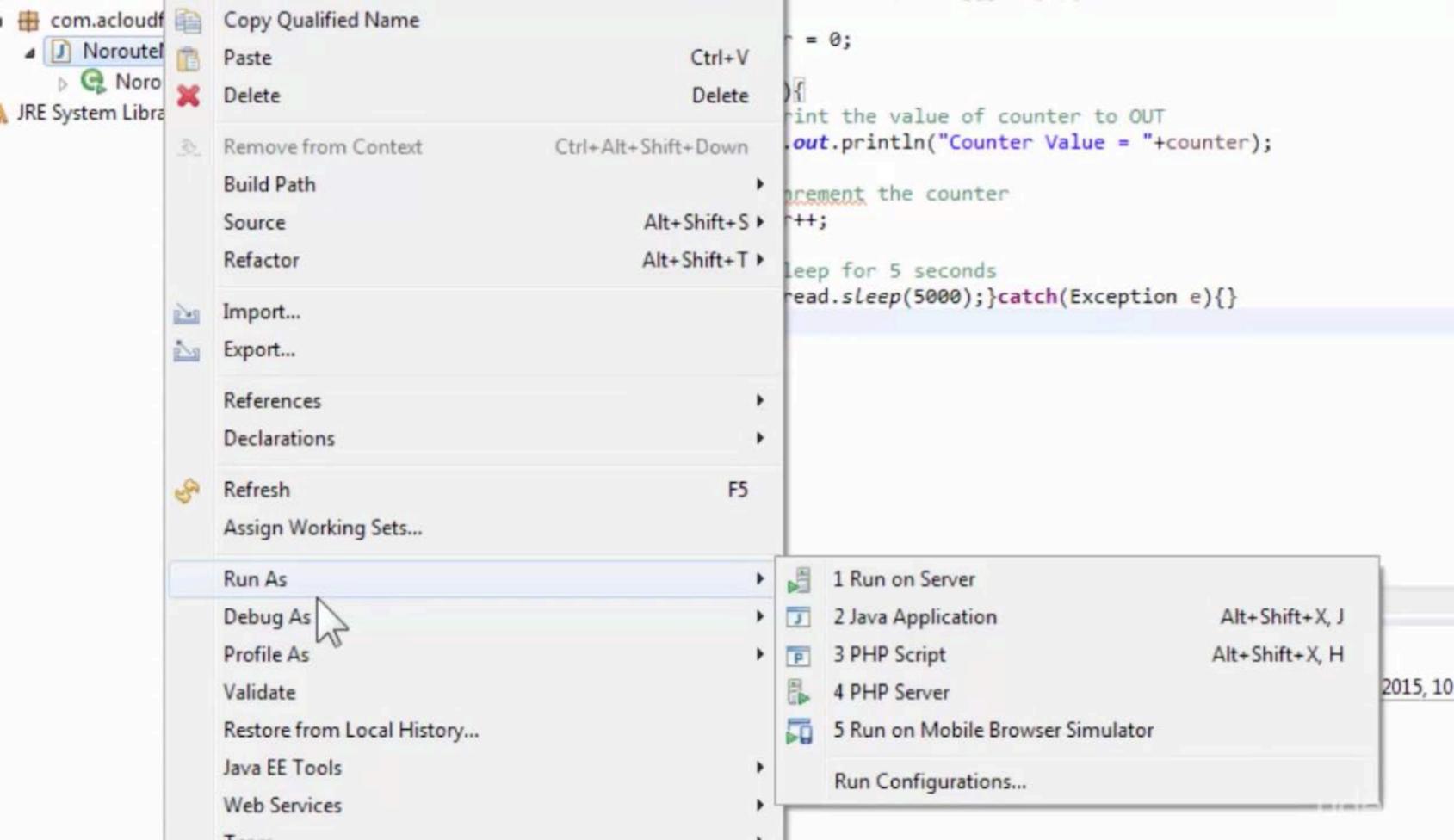
- Create a new project NoRouteApp
- 2. Create the package and the class with main method
- 3. Run the code as Java application
- 4. Export the application as a Runnable Jar
- 5. Create the manifest file
- 6. cf push with no-route option
- 6. cf logs NoRouteApp should print the counter on screen every 5 secs



mcached Find Light ✓ Use default location Location: C:\Users\rajeev\Desktop\Bluemix Course\workspace\NoRot Browse... JRE Use an execution environment JRE: JavaSE-1.7 (i) Conn Use a project specific JRE: jdk1.7 Conn create Use default JRE (currently 'jdk1.7') Configure JREs... E Outlin Project layout An outline Use project folder as root for sources and class files Create separate folders for sources and class files Configure default... Working sets Add project to working sets Working sets: Select... B 6 Problem Studio Conso ? < Back Next > Finish Cancel



```
// Main method
// Simply print the counter
public static void main(String[] args){
       int counter = 0;
       while(true){
            //1. Print the value of counter to OUT
            System.out.println("Counter Value = "+counter);
            //2. Inrement the counter
            counter++;
            //3. Sleep for 5 seconds
            try{Thread.sleep(5000);}catch(Exception e){}
```

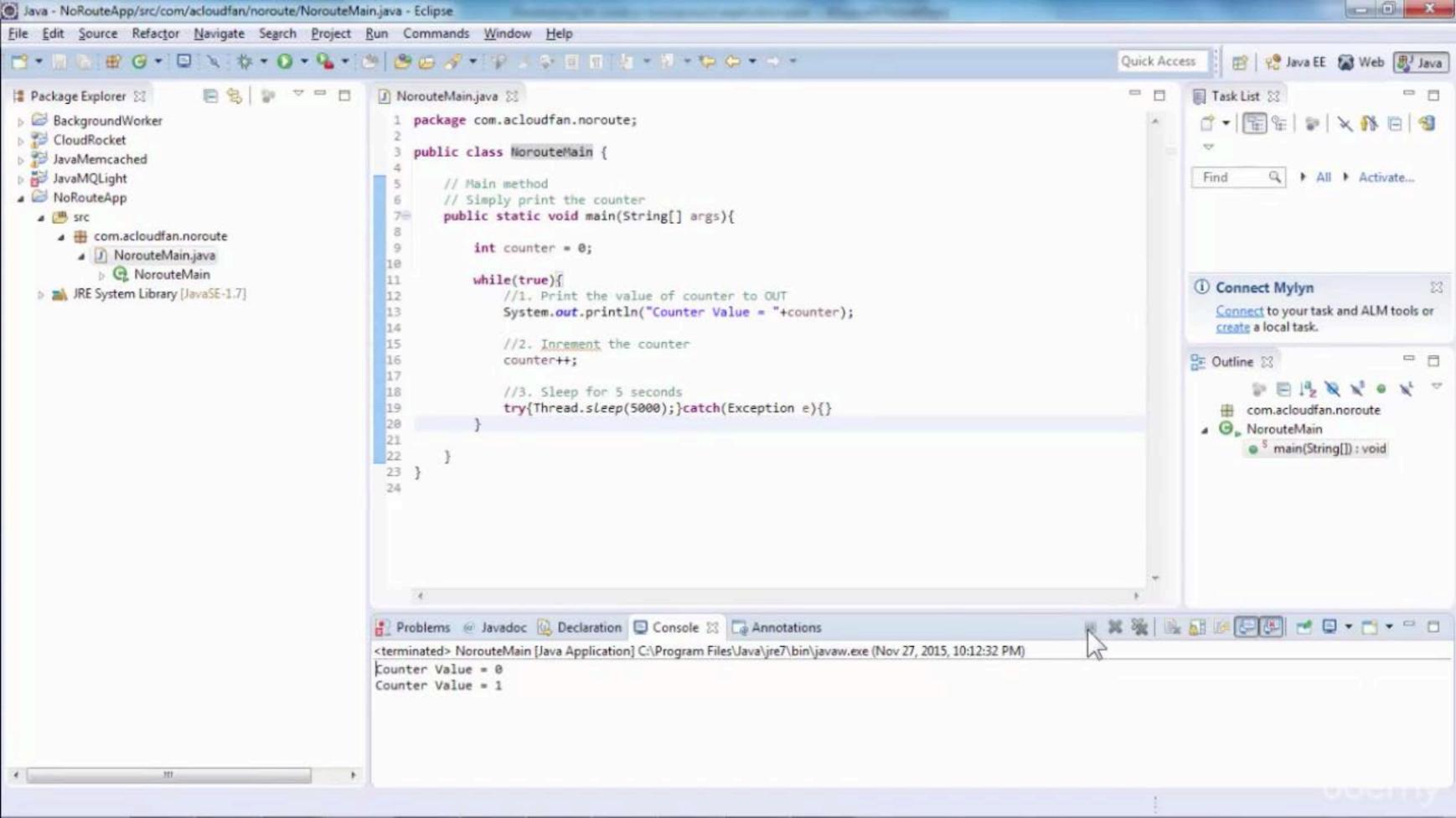


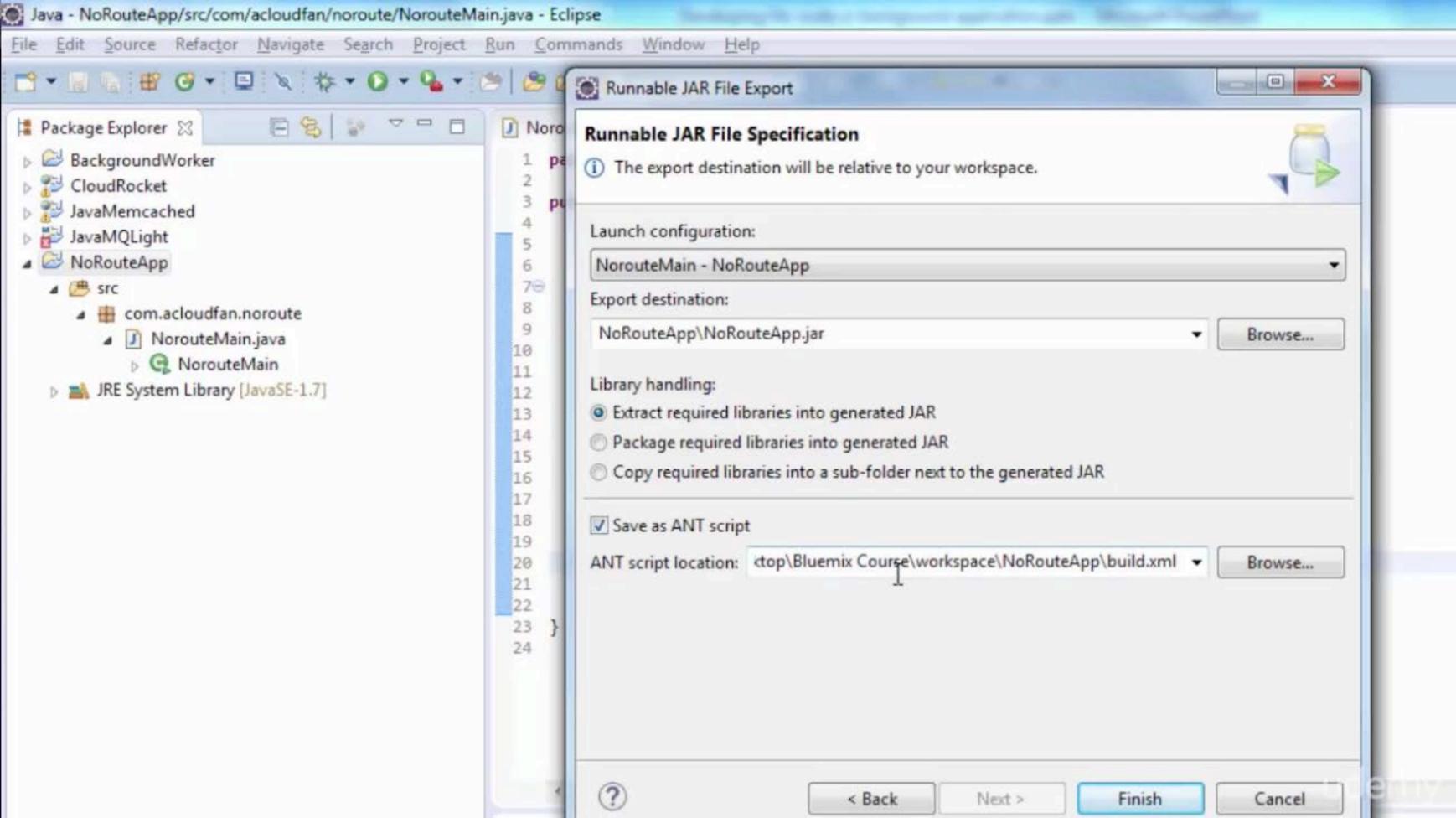
```
8
 9
            int counter = 0;
10
            while(true){
11
12
                //1. Print the value of counter to OUT
13
                System.out.println("Counter Value = "+counter);
14
15
                //2. Inrement the counter
16
                counter++;
17
18
                //3. Sleep for 5 seconds
19
                try{Thread.sleep(5000);}catch(Exception e){}
20
21
22
23
24
```

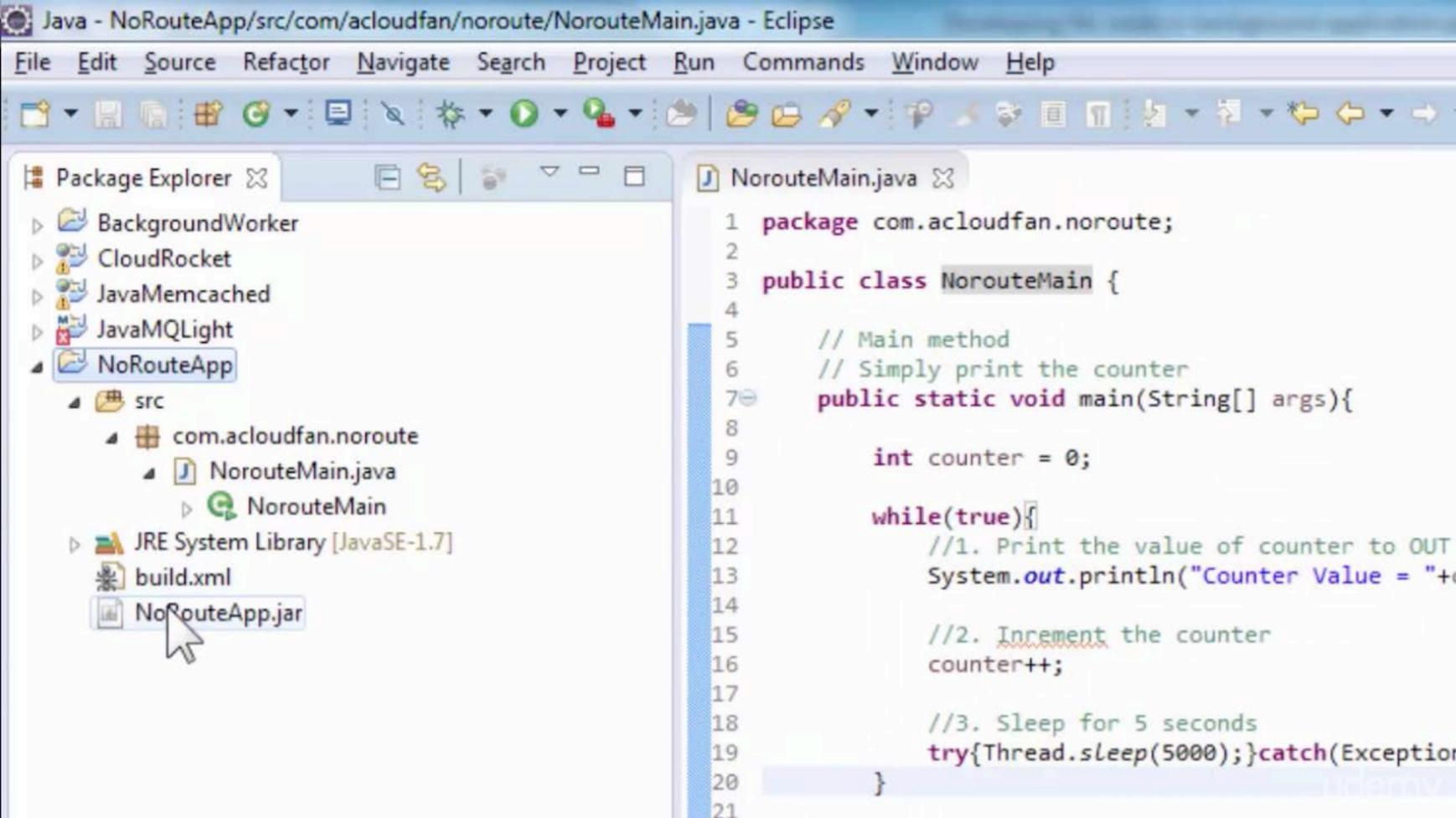
```
Problems @ Javadoc Declaration Console S Annotations

No consoles to display at this time.
```

Counter Value = 0







```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
 20 <project default="create run jar" name="Create Runnable Jar for Project NoRouteApp">
       <!--this file was created by Eclipse Runnable JAR Export Wizard-->
       <!--ANT 1.7 is required
       <!--define folder properties-->
       property name="dir.buildfile" value="."/>
 6
       cproperty name="dir.workspace" value="${dir.buildfile}/.."/>
       property name="dir.jarfile" value="${dir.buildfile}"/>
8
99
       <target name="create run jar">
100
           <jar destfile="${dir.jarfile}/NoRouteApp.jar" filesetmanifest="mergewithoutmain">
119
                <manifest>
12
                    <attribute name="Main-Class" value="com.acloudfan.noroute.NorouteMain"/>
                    <attribute name="Class-Path" value="."/>
13
14
               </manifest>
15
                <fileset dir="${dir.jarfile}/bin"/>
16
           </jar>
17
       </target>
   </project>
18
```

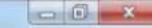
```
manifest.yml 🖂
```

```
1⊖ applications:

2 - path: NoRouteApp.jar

3 memory: 256M
```

- 4 disk_quota: 1024M
- 5 instances: 1
- 6 name: NoRouteApp



\$ cf push --no-route
Using manifest file C:\Users\rajeev\Desktop\Bluemix Course\workspace\NoRouteApp\manifest.yml

Updating app NoRouteApp in org Cloud Rocket / space Development as sakhuja4@gmail.com...

App NoRouteApp is a worker, skipping route creation
Uploading NoRouteApp...
Uploading app files from: C:\Users\rajeev\Desktop\Bluemix Course\workspace\NoRouteApp\NoRouteApp.jar
Uploading 1.7K, 6 files
Done uploading



\$ cf logs NoRouteApp

```
$ cf logs NoRouteApp
Connected, tailing logs for app NoRouteApp in org Cloud Rocket / space Development as sa
2015-11-27T22:30:57.19-0500 [App/0] OUT Counter Value = 10
2015-11-27T22:31:02.19-0500 [App/0] OUT Counter Value = 11
```

Summary

 Workers apps are background processes that do not have a URL/route to it

 Worker apps are created by pushing the app with cf push command with –no-route option