TP1 : JEE

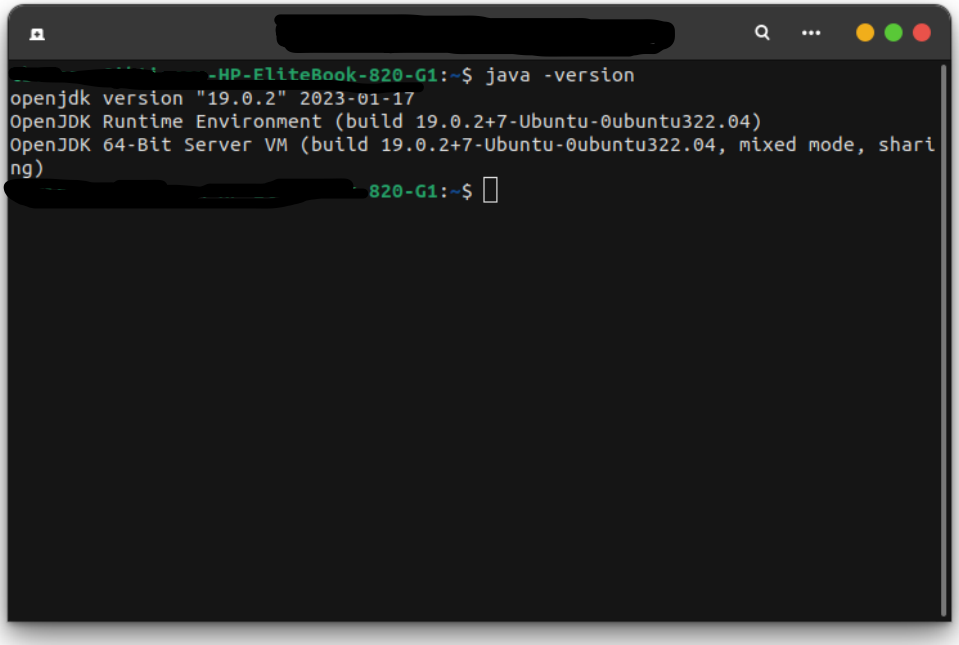
Par : Mr. Khalfallah

Installation d’un serveur d’applications et d’un environnement de développement

> L’objectif de ce TP est la mise en place de l’environnement de développement Eclipse IDE. En plus nous allons installer et configurer un serveur d’application Tomcat.

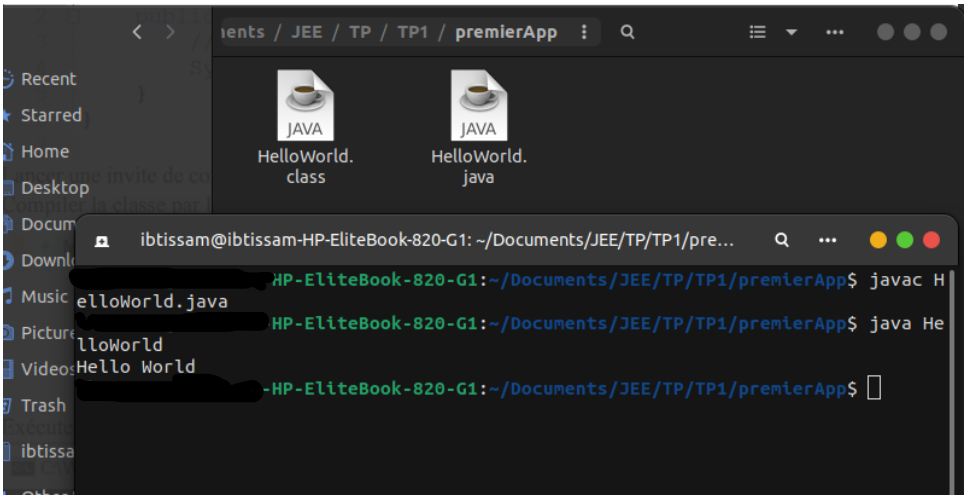
A. Installation de Java SE (JDK) :

Repérer la version de java installée :

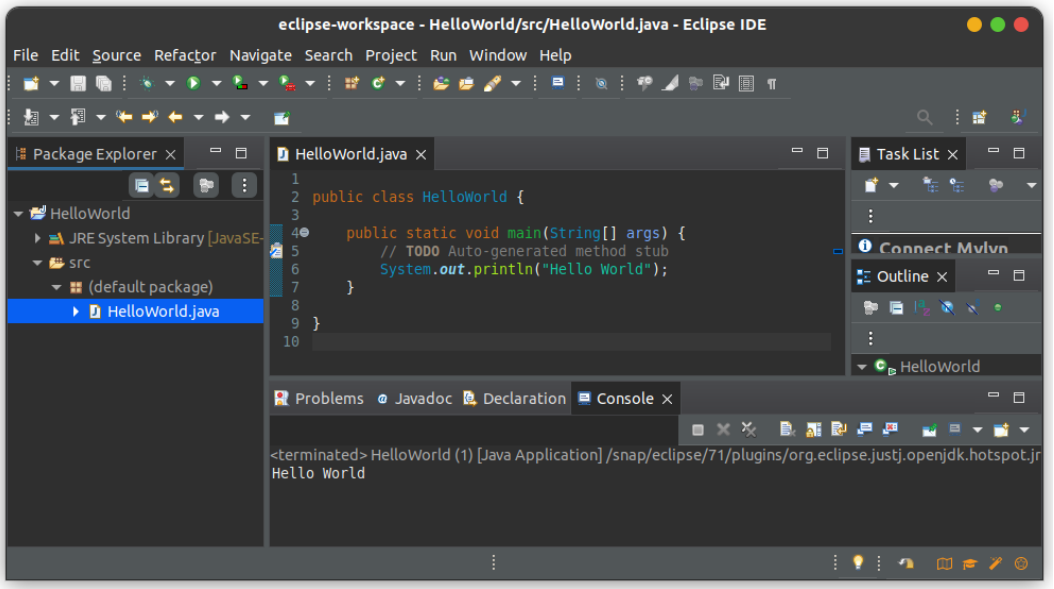


Taper le code suivant et enregistrer le sous le HelloWorld.java dans un éditeur de texte :

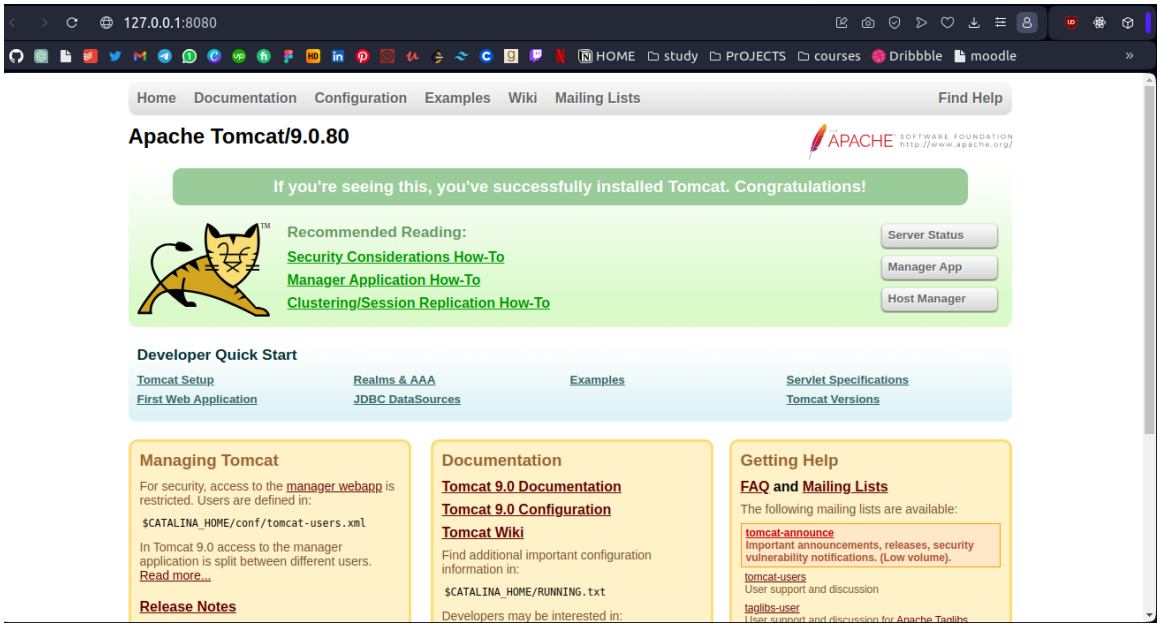
Compiler la classe par la commande javac HelloWorld.java et l'exécuter en tapant commande java HelloWorld :



B. Installation d'Eclipse IDE :



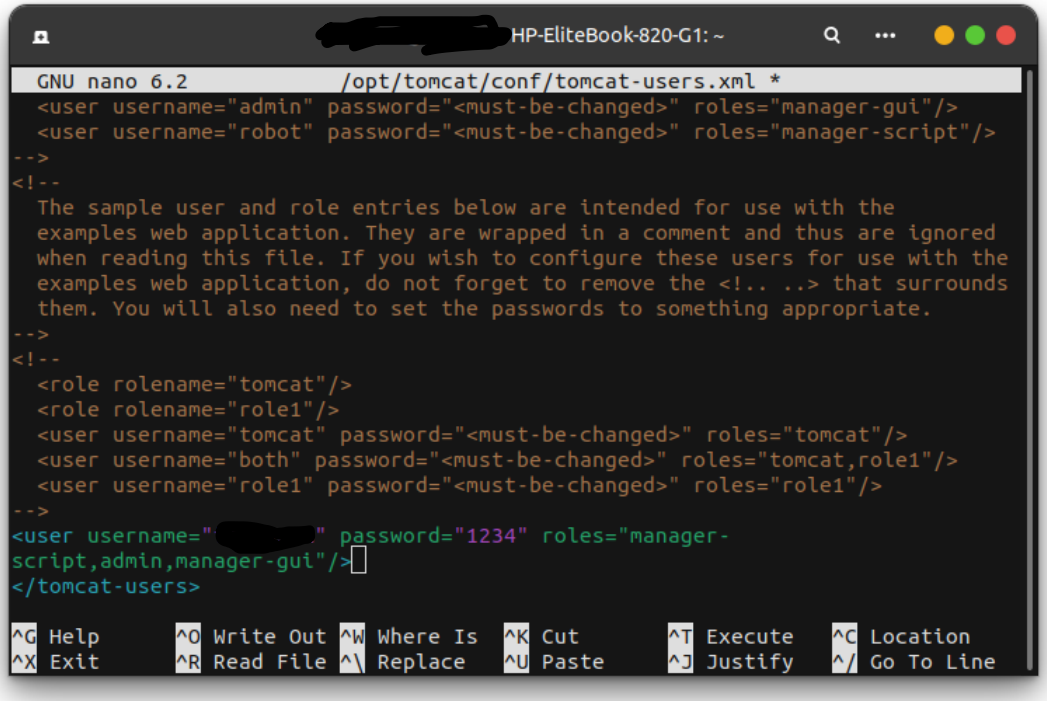
C. Installation d'Apache-Tomcat:

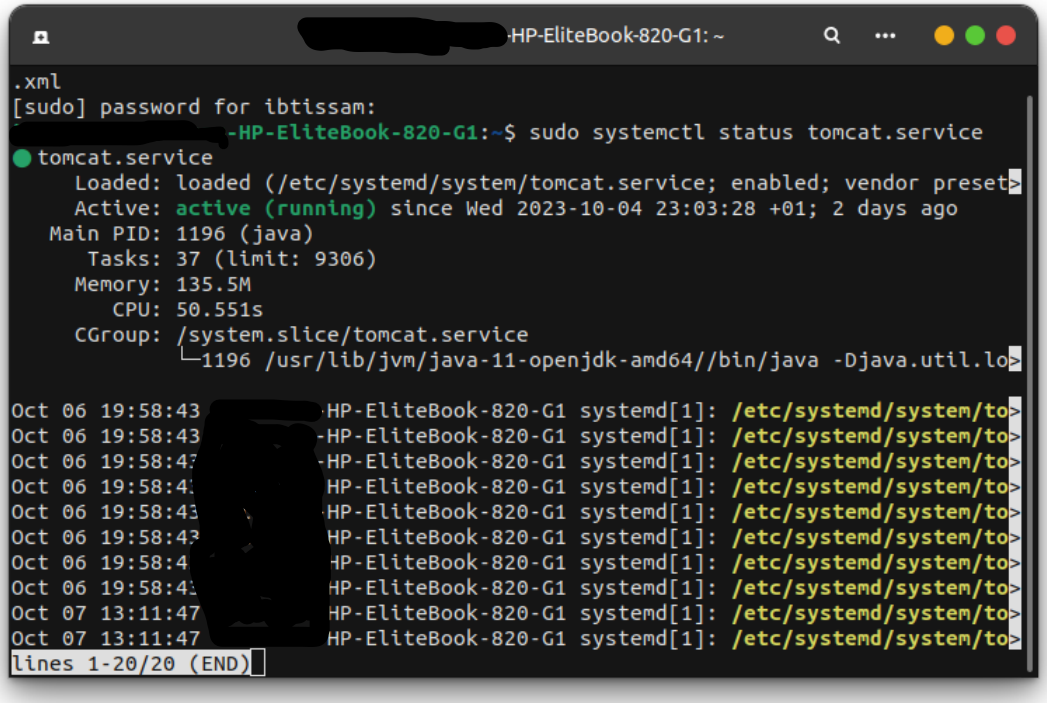


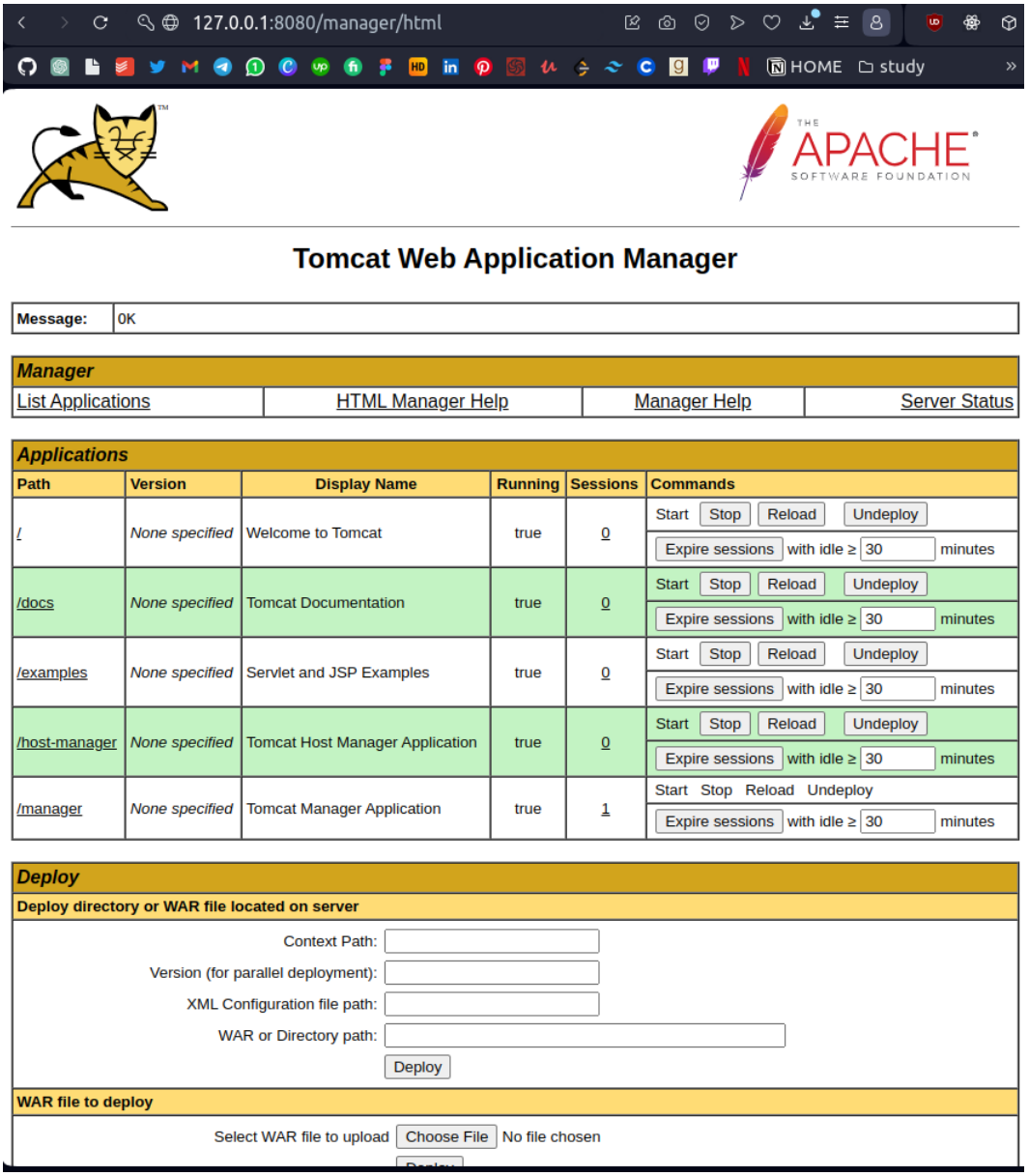
D. Déploiement d'une application avec une archive WAR)

Ajouter la ligne ci-dessous puis enregistrer le fichier `tomcat-users.xml`

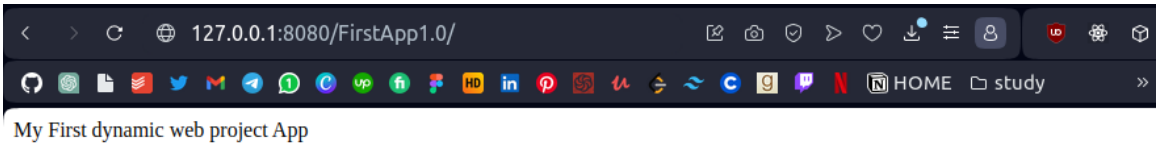
`<user username="ibtissam" password="1234" roles="manager-script,admin,manager-gui"/>` :


[redacted]HP-EliteBook-820-G1: ~
GNU nano 6.2 /opt/tomcat/conf/tomcat-users.xml *
<user username="admin" password="<must-be-changed>" roles="manager-gui"/>
<user username="robot" password="<must-be-changed>" roles="manager-script"/>
-->
<!--
The sample user and role entries below are intended for use with the
examples web application. They are wrapped in a comment and thus are ignored
when reading this file. If you wish to configure these users for use with the
examples web application, do not forget to remove the <!.. ..> that surrounds
them. You will also need to set the passwords to something appropriate.
-->
<!--
<role rolename="tomcat"/>
<role rolename="role1"/>
<user username="tomcat" password="<must-be-changed>" roles="tomcat"/>
<user username="both" password="<must-be-changed>" roles="tomcat,role1"/>
<user username="role1" password="<must-be-changed>" roles="role1"/>
-->
<user username="[redacted]" password="1234" roles="manager-
script,admin,manager-gui"/>
</tomcat-users>
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line

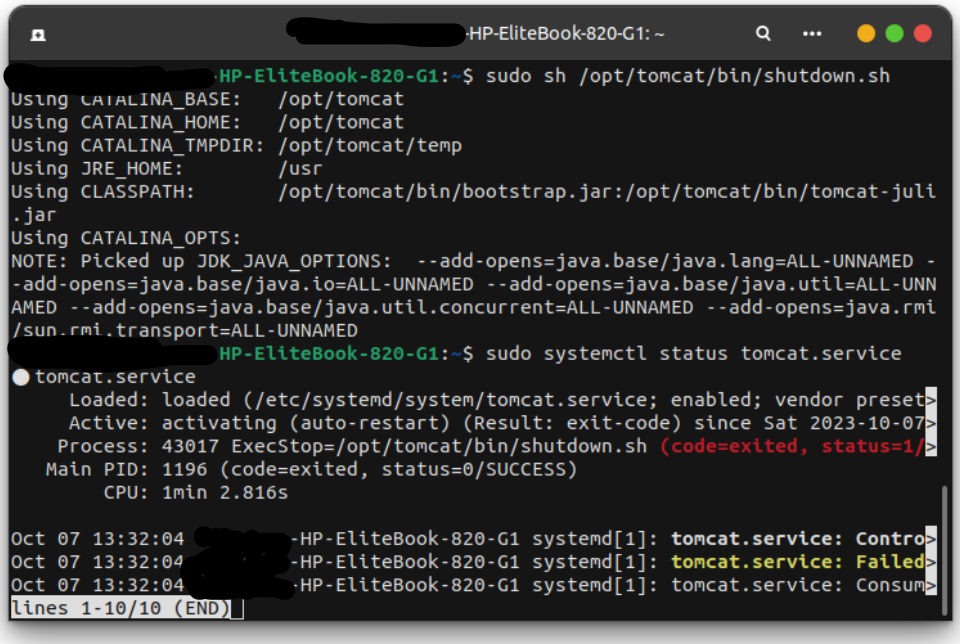

[redacted]HP-EliteBook-820-G1: ~
.xml
[sudo] password for ibtissam:
[redacted]-HP-EliteBook-820-G1:~$ sudo systemctl status tomcat.service
tomcat.service
Loaded: loaded (/etc/systemd/system/tomcat.service; enabled; vendor preset>
Active: active (running) since Wed 2023-10-04 23:03:28 +01; 2 days ago
Main PID: 1196 (java)
Tasks: 37 (limit: 9306)
Memory: 135.5M
CPU: 50.551s
CGroup: /system.slice/tomcat.service
└─1196 /usr/lib/jvm/java-11-openjdk-amd64//bin/java -Djava.util.lo>
Oct 06 19:58:43 [redacted]HP-EliteBook-820-G1 systemd[1]: /etc/systemd/system/to>
Oct 06 19:58:43 [redacted]HP-EliteBook-820-G1 systemd[1]: /etc/systemd/system/to>
Oct 06 19:58:47 [redacted]HP-EliteBook-820-G1 systemd[1]: /etc/systemd/system/to>
Oct 06 19:58:43 [redacted]HP-EliteBook-820-G1 systemd[1]: /etc/systemd/system/to>
Oct 06 19:58:43 [redacted]HP-EliteBook-820-G1 systemd[1]: /etc/systemd/system/to>
Oct 06 19:58:43 [redacted]HP-EliteBook-820-G1 systemd[1]: /etc/systemd/system/to>
Oct 06 19:58:4 [redacted]HP-EliteBook-820-G1 systemd[1]: /etc/systemd/system/to>
Oct 06 19:58:43 [redacted]HP-EliteBook-820-G1 systemd[1]: /etc/systemd/system/to>
Oct 07 13:11:47 [redacted]HP-EliteBook-820-G1 systemd[1]: /etc/systemd/system/to>
Oct 07 13:11:47 [redacted]HP-EliteBook-820-G1 systemd[1]: /etc/systemd/system/to>
lines 1-20/20 (END)



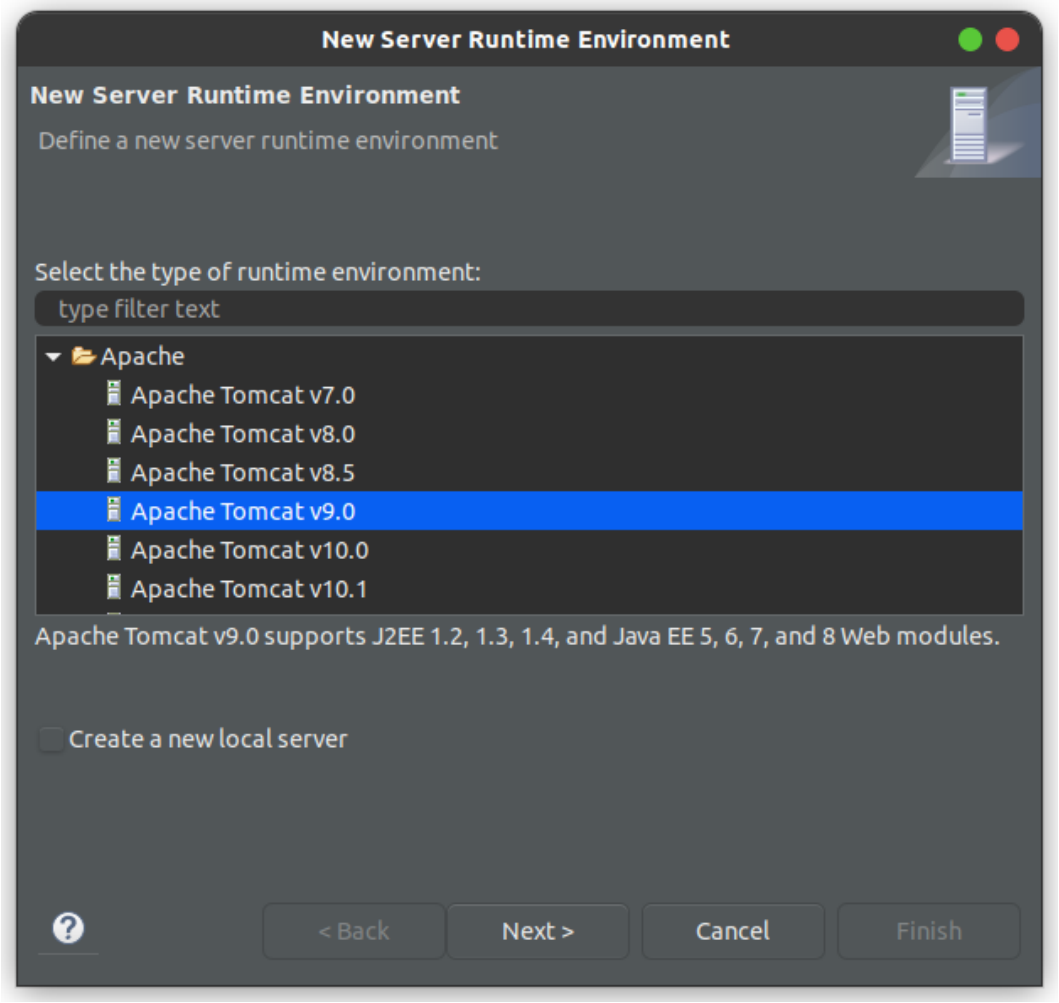
Tester le bon fonctionnement de l'application depuis un autre navigateur :

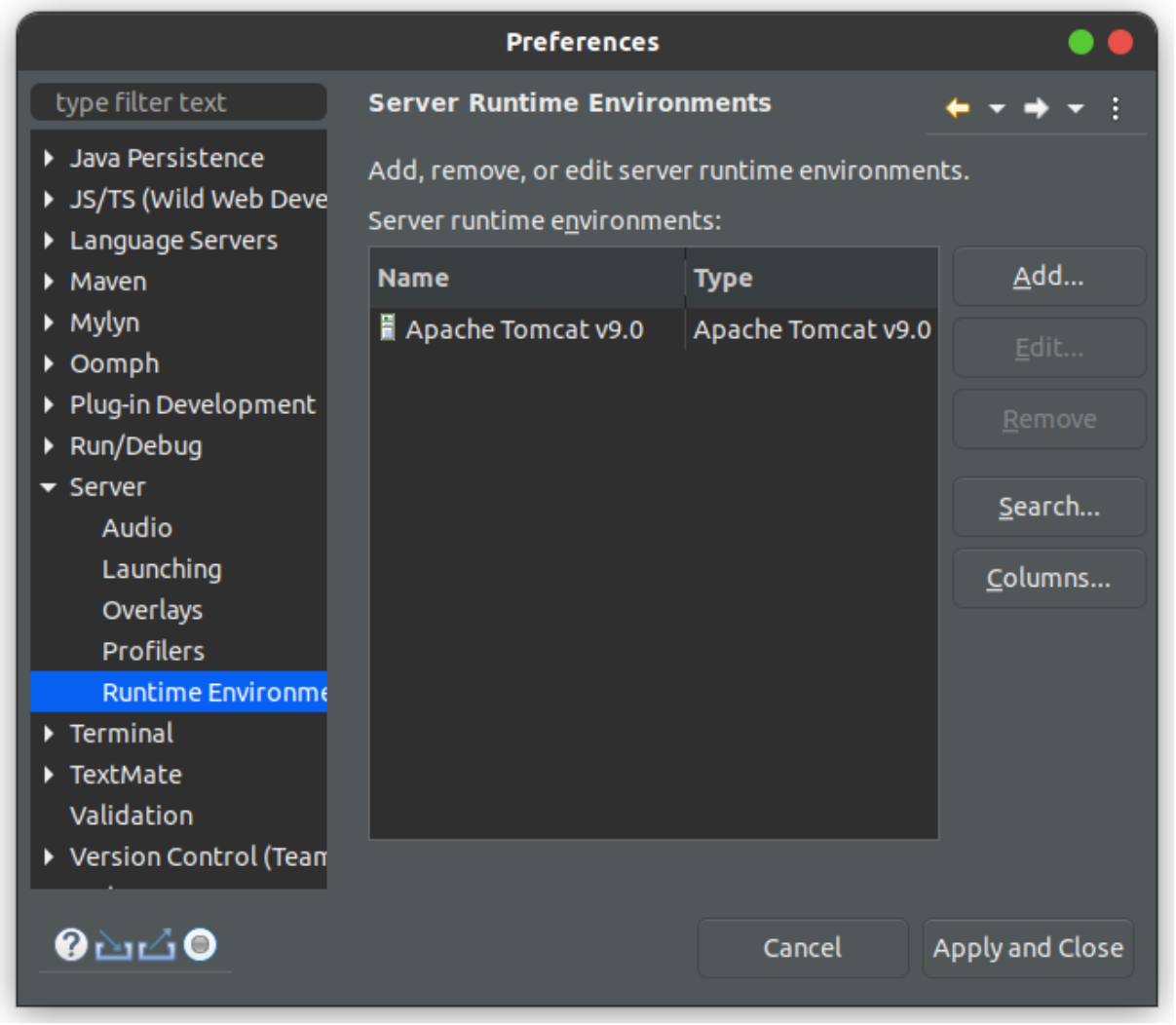


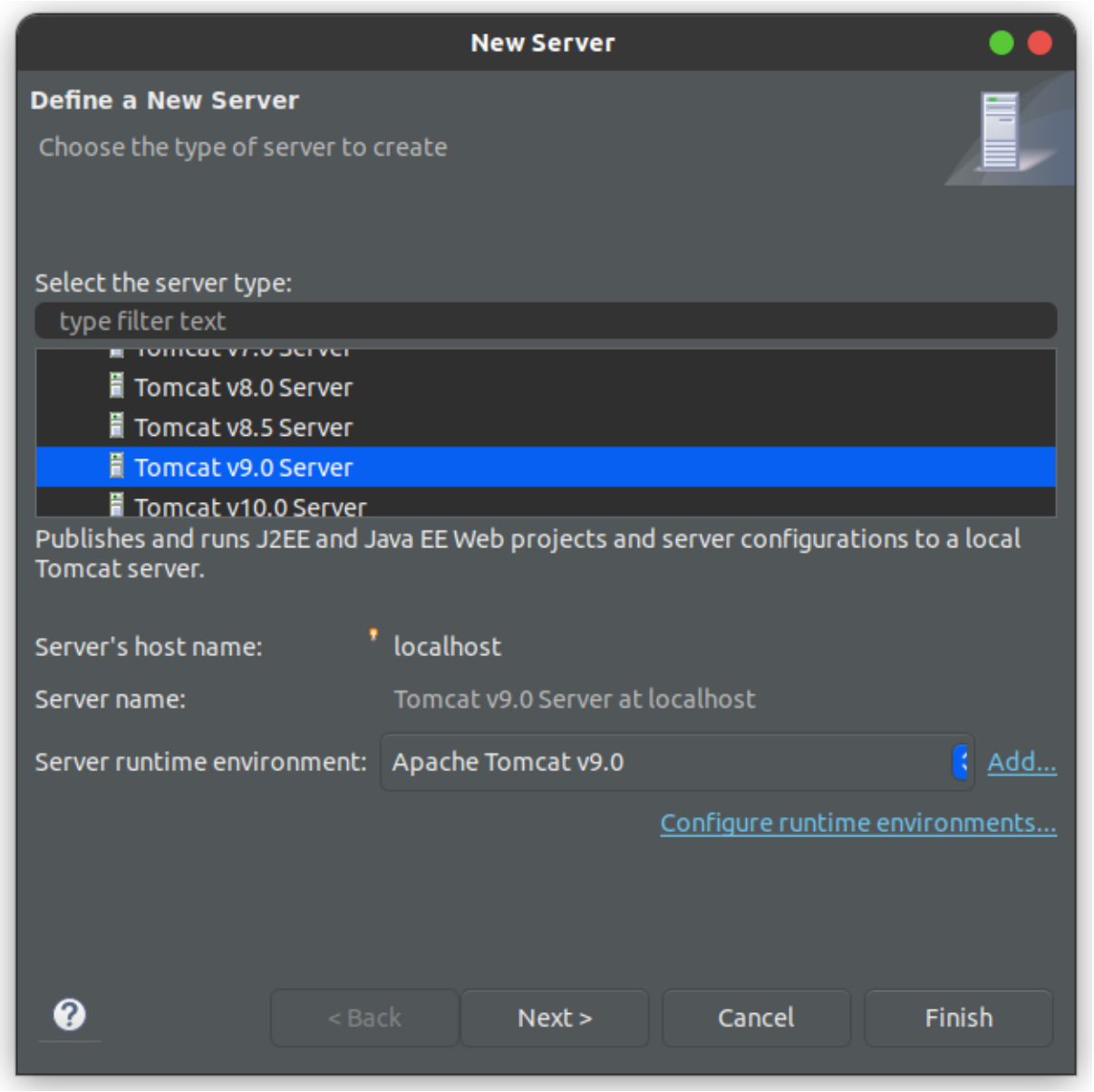
arrêter le serveur :

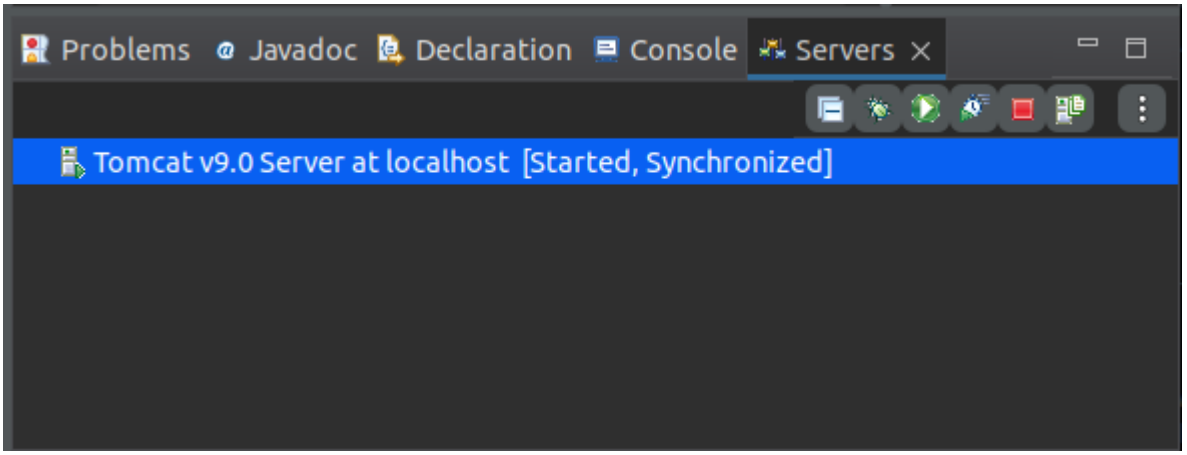


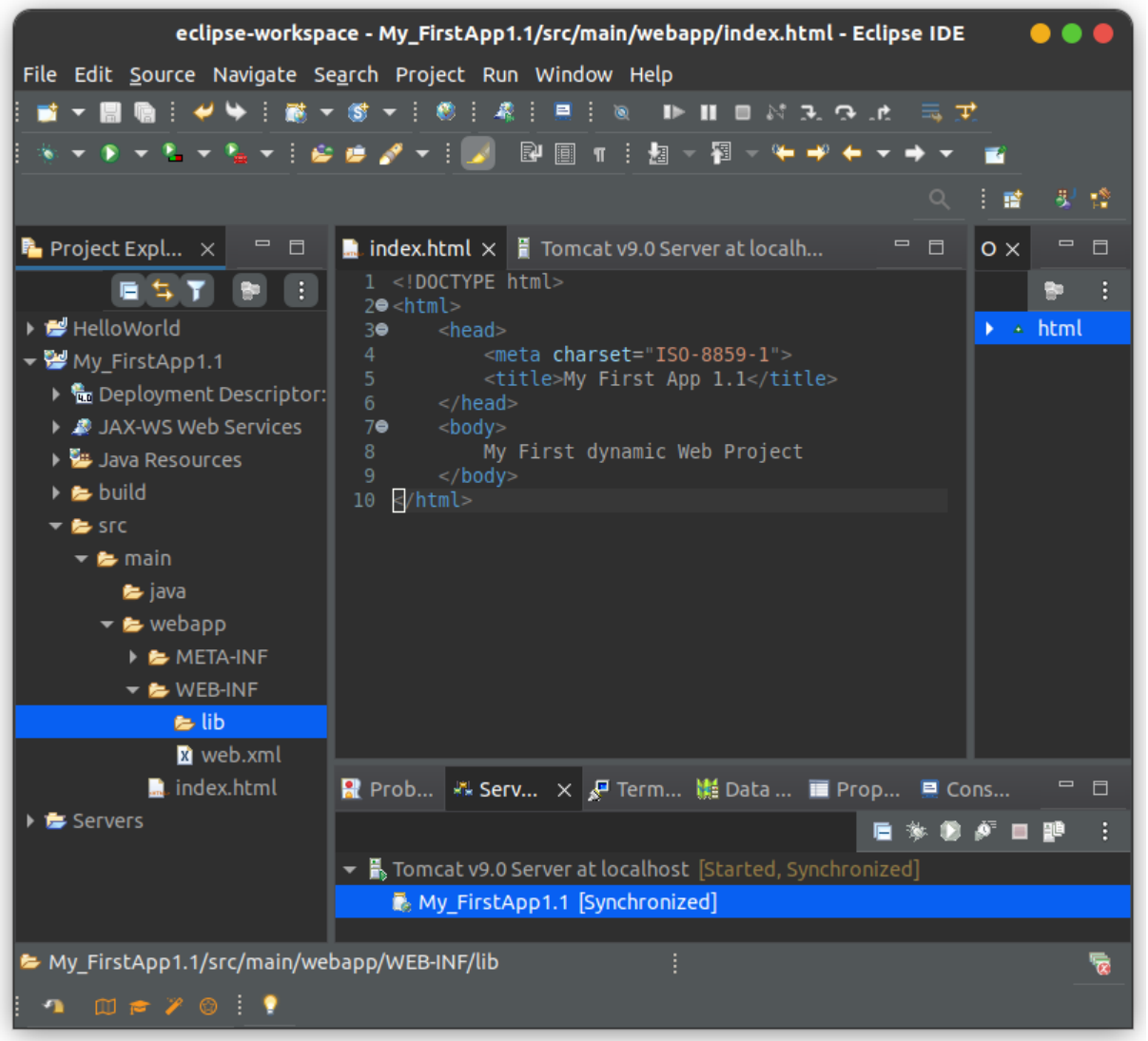
E. Ajout du serveur d’application Tomcat à Eclipse IDE


New Server Runtime Environment
New Server Runtime Environment
Define a new server runtime environment
Select the type of runtime environment:
type filter text
Apache
Apache Tomcat v7.0
Apache Tomcat v8.0
Apache Tomcat v8.5
Apache Tomcat v9.0
Apache Tomcat v10.0
Apache Tomcat v10.1
Apache Tomcat v9.0 supports J2EE 1.2, 1.3, 1.4, and Java EE 5, 6, 7, and 8 Web modules.
Create a new local server
< Back
Next >
Cancel
Finish


Preferences
type filter text
Java Persistence
JS/TS (Wild Web Deve
Language Servers
Maven
Mylyn
Oomph
Plug-in Development
Run/Debug
Server
Audio
Launching
Overlays
Profilers
Runtime Environme
Terminal
TextMate
Validation
Version Control (Tean
Server Runtime Environments
Add, remove, or edit server runtime environments.
Server runtime environments:
Name
Type
Apache Tomcat v9.0
Apache Tomcat v9.0
Add...
Edit...
Remove
Search...
Columns...
Cancel
Apply and Close


New Server
Define a New Server
Choose the type of server to create
Select the server type:
type filter text
Tomcat v8.0 Server
Tomcat v8.5 Server
Tomcat v9.0 Server
Tomcat v10.0 Server
Publishes and runs J2EE and Java EE Web projects and server configurations to a local Tomcat server.
Server's host name:
localhost
Server name:
Tomcat v9.0 Server at localhost
Server runtime environment:
Apache Tomcat v9.0
Add...
Configure runtime environments...
< Back
Next >
Cancel
Finish


Problems
Javadoc
Declaration
Console
Servers
Tomcat v9.0 Server at localhost [Started, Synchronized]



My First dynamic Web Project