

Par: IBTISSAM MASSA - GINFO2

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

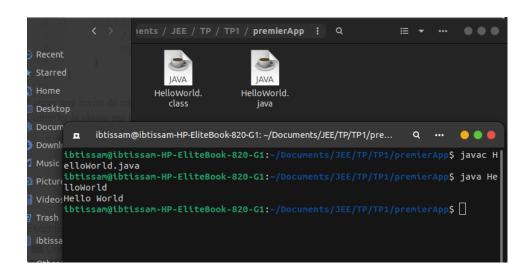
L'objectif de ce TP est la mise en place de l'environnement de développement Eclipse IDE. En plus nous allons installer et configurer un serveur d'application Tomcat.

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 :

```
eclipse-workspace - HelloWorld/src/HelloWorld.java - Eclipse IDE
File Edit <u>S</u>ource Refac<u>t</u>or Navigate Search Project Run Window Help
□ Package Explorer × □
                                                                                  □ 🛘 📮 Task List 🗴 🗀 🖯
                          ☑ HelloWorld.java ×
                                                                                          *
 ▶ ➡ JRE System Library [JavaSE

    Connect Mylyn

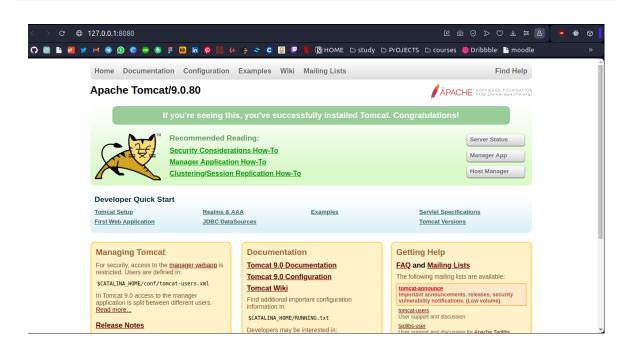
                                      // TODO Auto-generated method stub
System.out.println("Hello World");
 ▼ 👺 src
                                                                                         ■ Outline × □ □
                                                                                          ▶ ☑ HelloWorld.java

  ▼ €

  B HelloWorld

                           🦹 Problems 🏿 Javadoc 🔼 Declaration 💻 Console 🗴
                                                                       <terminated> HelloWorld (1) [Java Application] /snap/eclipse/71/plugins/org.eclipse.justj.openjdk.hotspot.j
Hello World
```

C. Installation d'Apache-Tomcat:

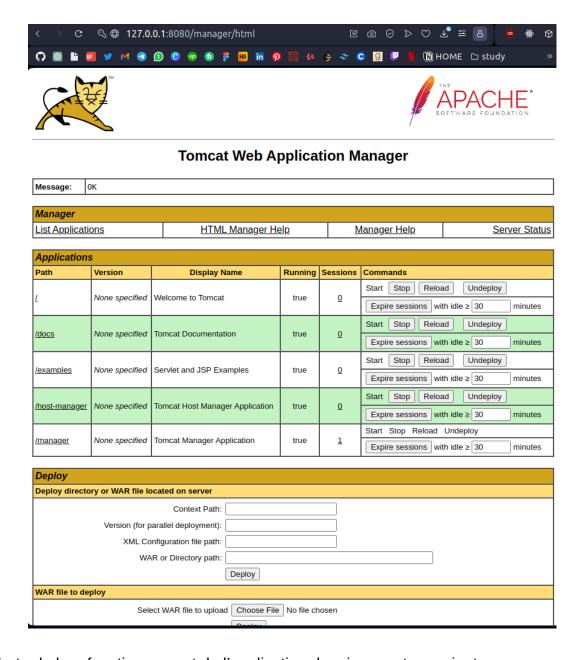


D. Déploiement d'une application avec une archive WAR)

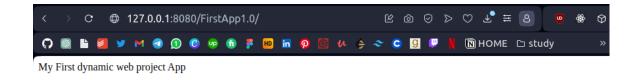
```
Ajouter la ligne ci-dessous puis enregistrer le fichier tomcat-users.xml 
<user username="ibtissam" password="1234" roles="manager-
script,admin,manager-gui"/> :
```

```
ibtissam@ibtissam-HP-EliteBook-820-G1: ~
                                                                                                Q ...
                                                                                                             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"/>
  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.
  <user username="both" password="<must-be-changed>" roles="tomcat,role1"/>
<user username="role1" password="<must-be-changed>" roles="role1"/>
<user username="ibtissam" password="1234" roles="manager-
script,admin,manager-gui"/>
</tomcat-users>
                   ^G Help
                                                                              ^T Execute
                                                                                                 ^C Location
                                                          ^U Paste
                                                                              ^J Justify
^X Exit
                                                                                                 ^/ Go To Line
```

```
ibtissam@ibtissam-HP-EliteBook-820-G1: ~
                                                                                                         q ...
                                                                                                                       п
 [sudo] password for ibtissam:
 ibtissam@ibtissam-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 ibtissam-HP-EliteBook-820-G1 systemd[1]: /etc/systemd/system/to>
Oct 06 19:58:43 ibtissam-HP-EliteBook-820-G1 systemd[1]: /etc/systemd/system/to>
Oct 06 19:58:43 ibtissam-HP-EliteBook-820-G1 systemd[1]: /etc/systemd/system/to
Oct 07 13:11:47 ibtissam-HP-EliteBook-820-G1 systemd[1]: /etc/systemd/system/to
Oct 07 13:11:47 ibtissam-HP-EliteBook-820-G1 systemd[1]: /etc/systemd/system/to
lines 1-20/20 (END)
```

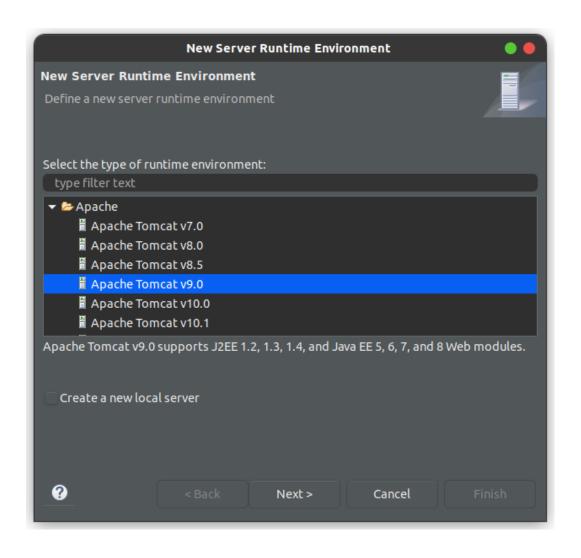


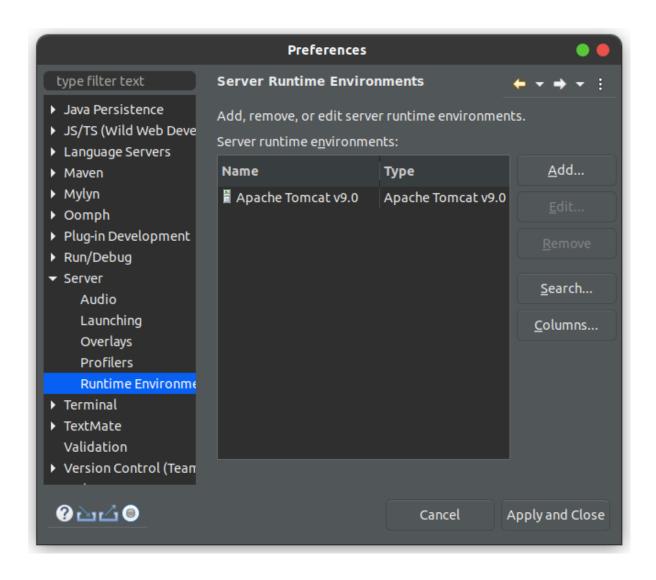
Tester le bon fonctionnement de l'application depuis un autre navigateur :

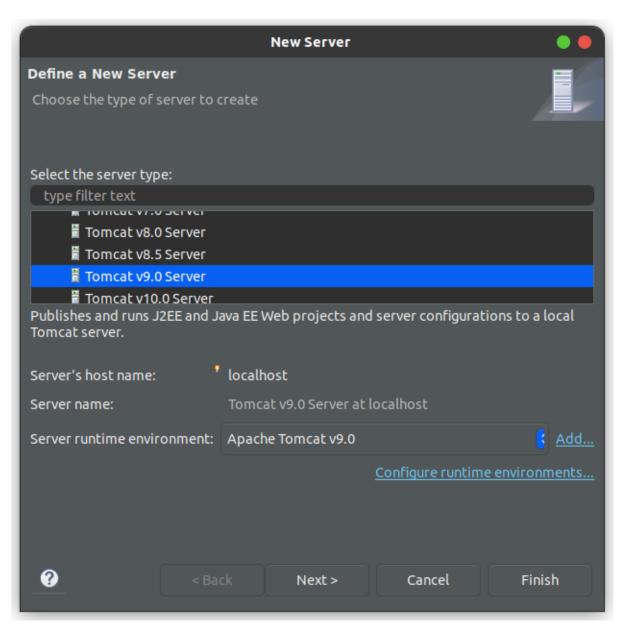


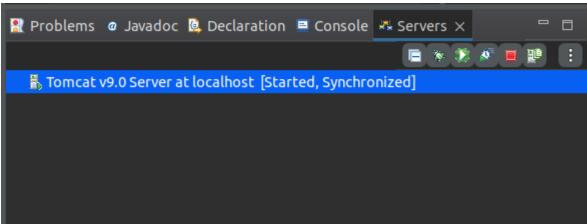
arrêter le serveur :

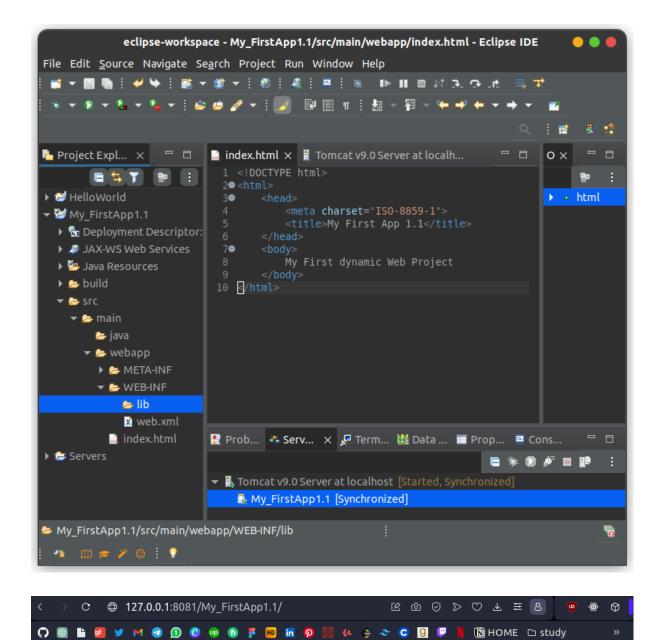
E. Ajout du serveur d'application Tomcat à Eclipse IDE











My First dynamic Web Project