

Se lancer dans C++ avec Eclipse Photon

L2

POO

2018-2019

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Travailler avec Eclipse: June 2018

<https://www.eclipse.org/downloads/packages/release/helios/sr2/eclipse-ide-cc-developers>



Ça marche pas sans JRE



Préparer L'environnement

- Installer le **JRE**: java run time=> indispensable pour lancer Eclipse

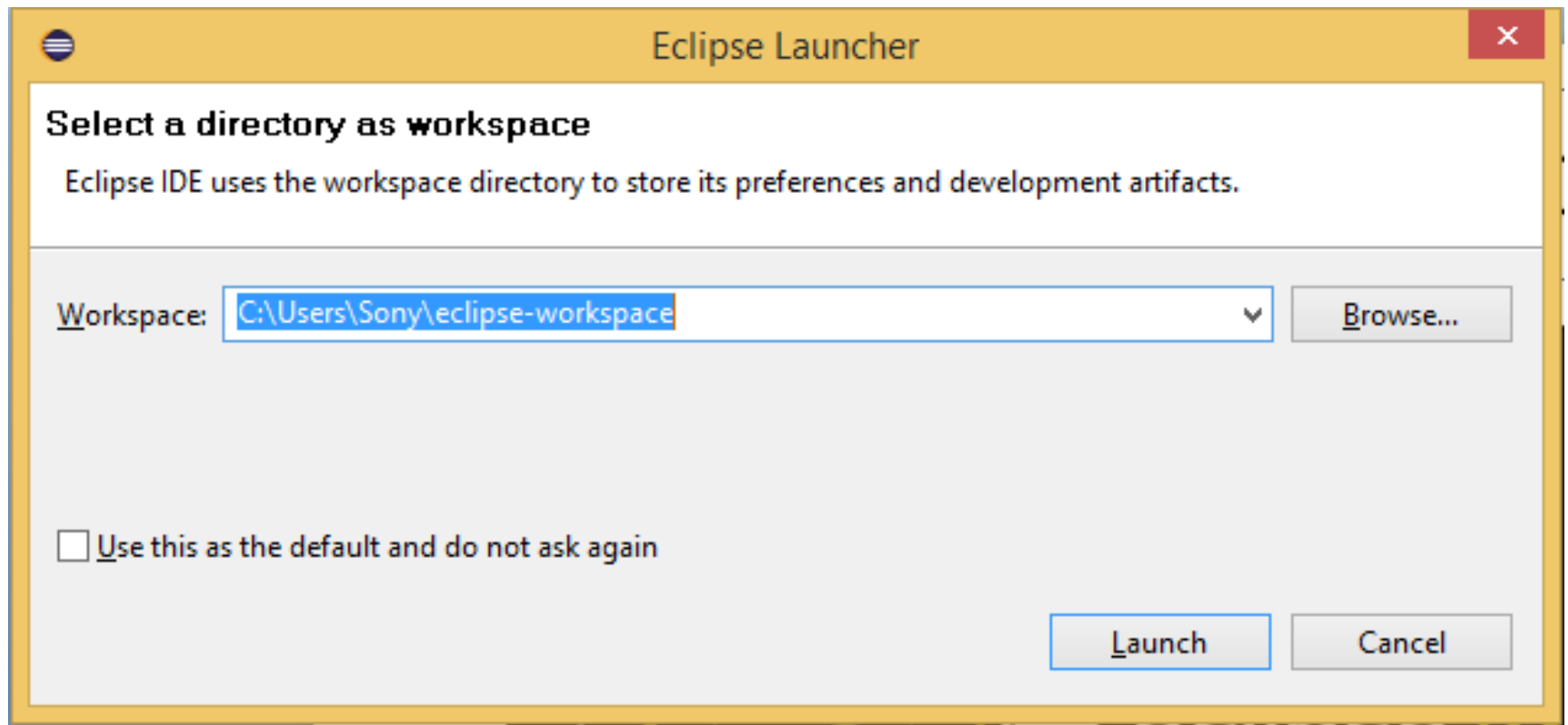
<https://www.oracle.com/technetwork/java/javase/downloads/jre-downloads-2133155.html>

Java SE Runtime Environment 8u181		
You must accept the Oracle Binary Code License Agreement for Java SE to download this software.		
Thank you for accepting the Oracle Binary Code License Agreement for Java SE; you may now download this software.		
Product / File Description	File Size	Download
Linux x86	64.49 MB	jre-8u181-linux-i586.rpm
Linux x86	80.4 MB	jre-8u181-linux-i586.tar.gz
Linux x64	61.45 MB	jre-8u181-linux-x64.rpm
Linux x64	77.43 MB	jre-8u181-linux-x64.tar.gz
Mac OS X x64	74.58 MB	jre-8u181-macosx-x64.dmg
Mac OS X x64	66.23 MB	jre-8u181-macosx-x64.tar.gz
Solaris SPARC 64-bit	52.31 MB	jre-8u181-solaris-sparcv9.tar.gz
Solaris x64	50.09 MB	jre-8u181-solaris-x64.tar.gz
Windows x86 Online	1.81 MB	jre-8u181-windows-i586-iftw.exe
Windows x86 Offline	61.55 MB	jre-8u181-windows-i586.exe
Windows x86	64.86 MB	jre-8u181-windows-i586.tar.gz
Windows x64	68.47 MB	jre-8u181-windows-x64.exe
Windows x64	68.94 MB	jre-8u181-windows-x64.tar.gz

Eclipse marchera



Espace de travail de Eclipse

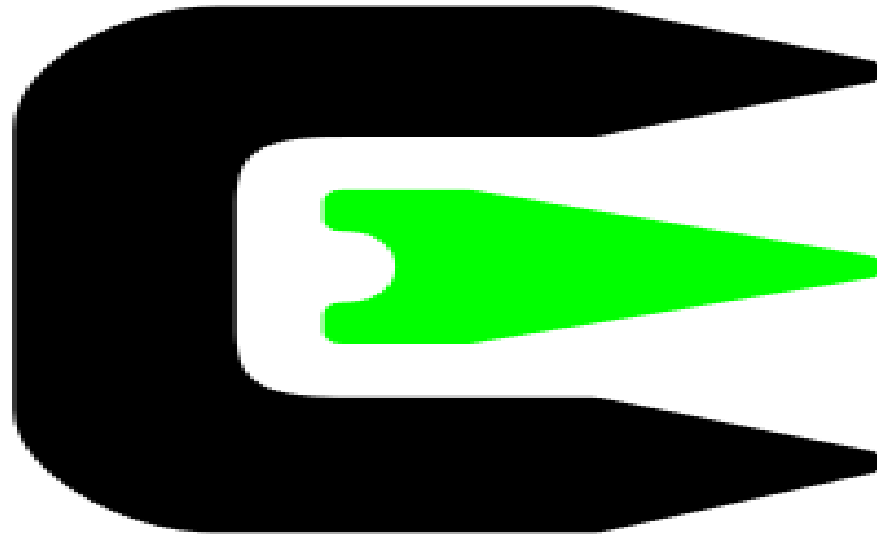


Ça marche pas sans Cygwin

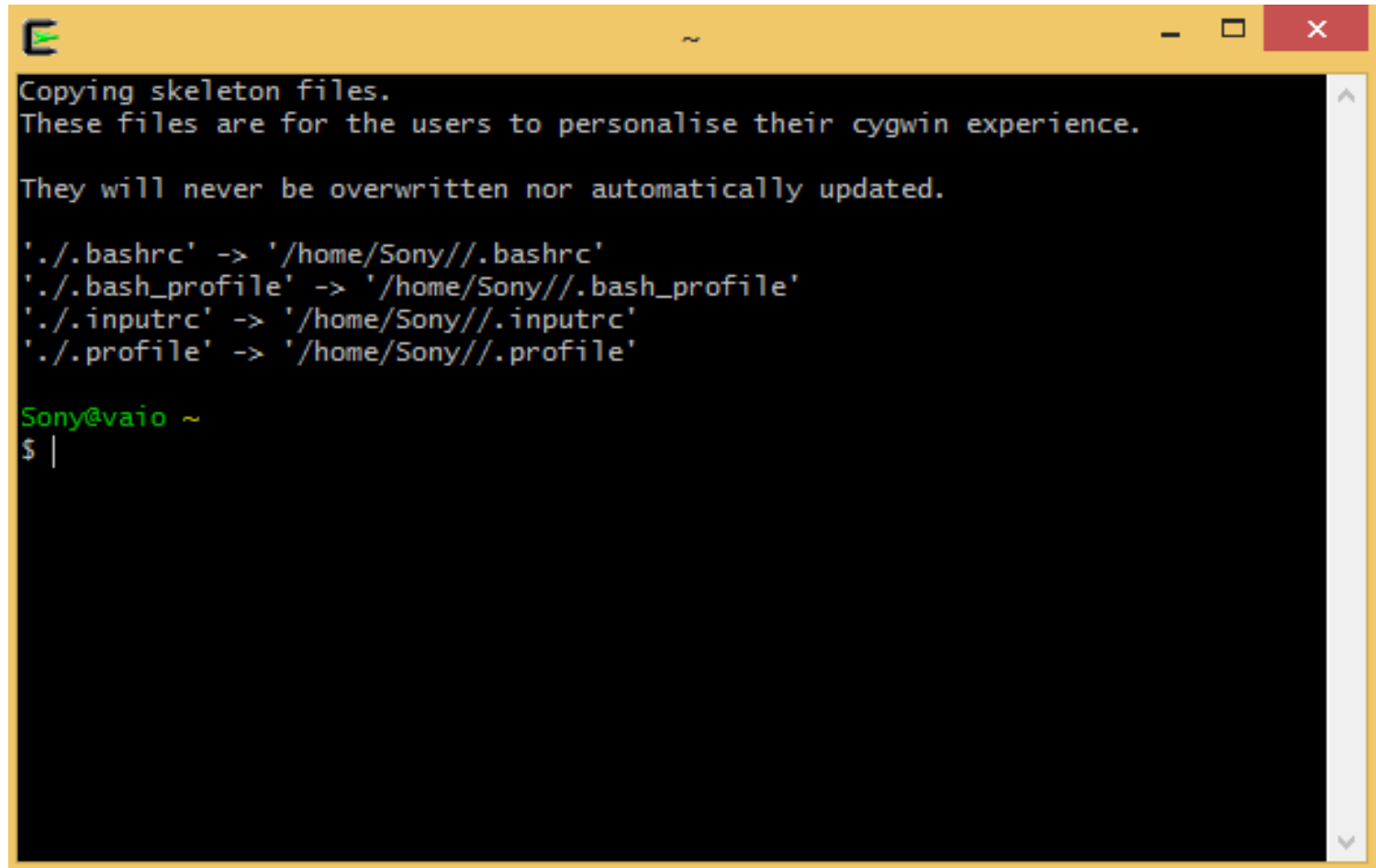


Installer Cygwin

<https://www.cygwin.com/install.html>

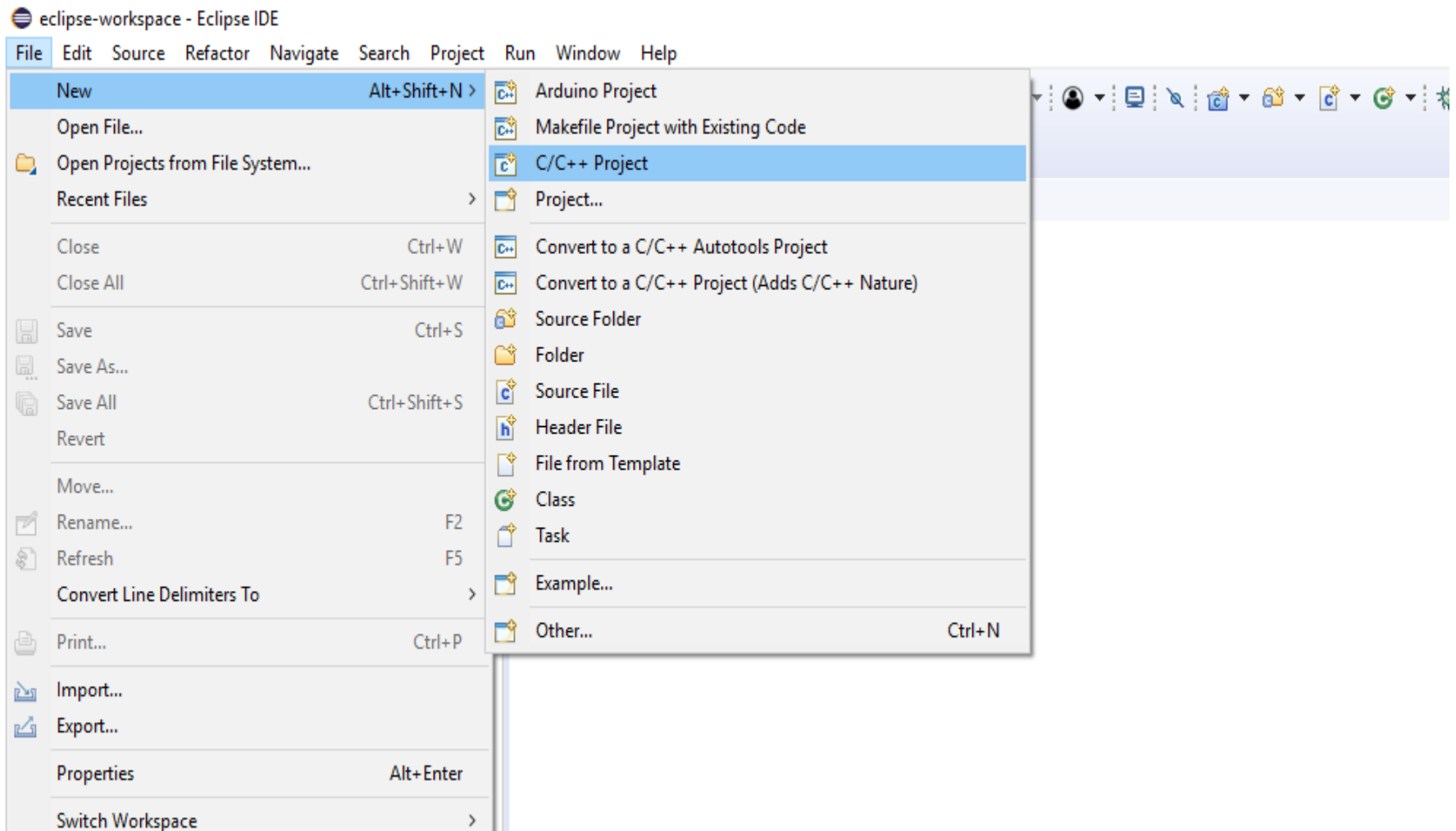


Émulateur Cygwin

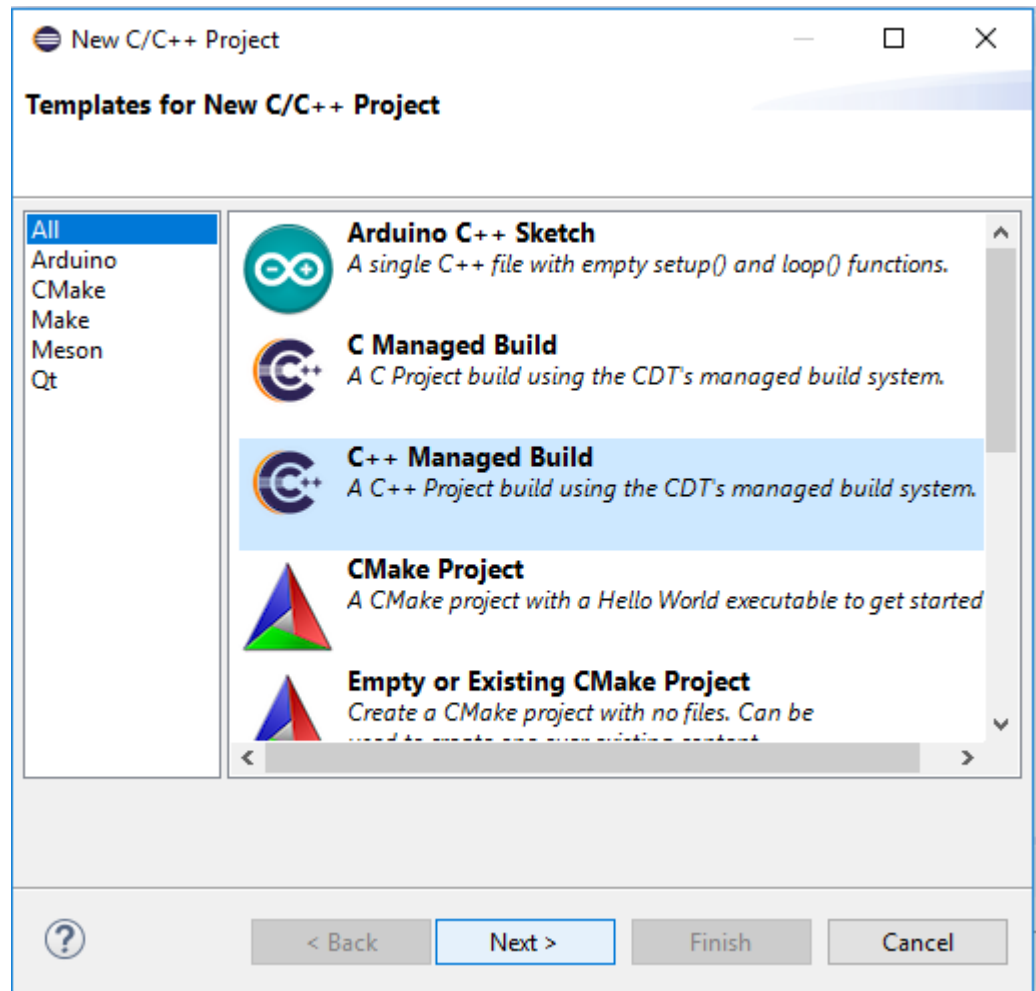


```
E ~ - □ ×  
Copying skeleton files.  
These files are for the users to personalise their cygwin experience.  
  
They will never be overwritten nor automatically updated.  
  
'./bashrc' -> '/home/Sony//.bashrc'  
'./bash_profile' -> '/home/Sony//.bash_profile'  
'./inputrc' -> '/home/Sony//.inputrc'  
'./profile' -> '/home/Sony//.profile'  
  
Sony@vaio ~  
$ |
```

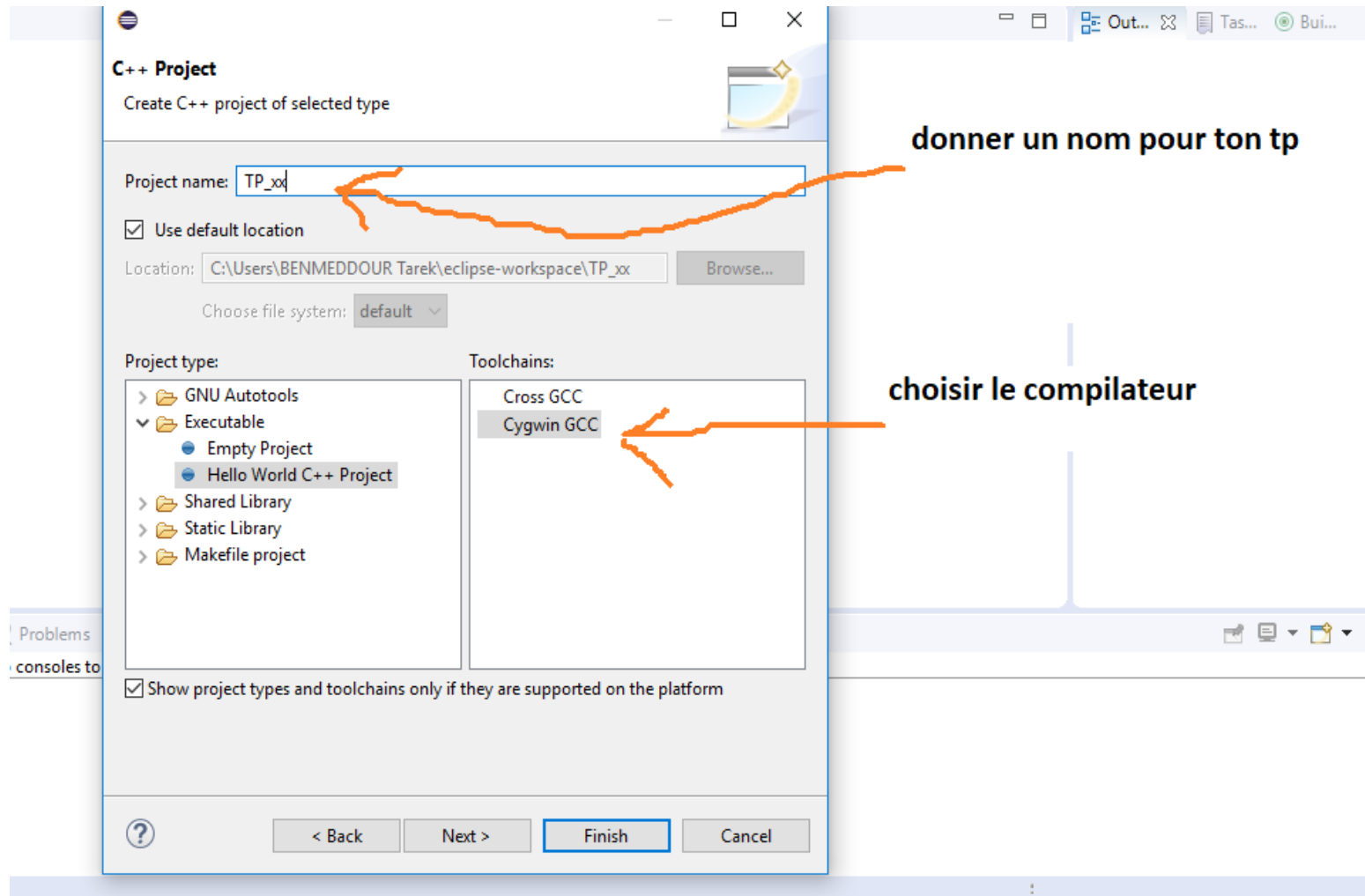
Création d'un nouveau projet C++: retour sur eclipse



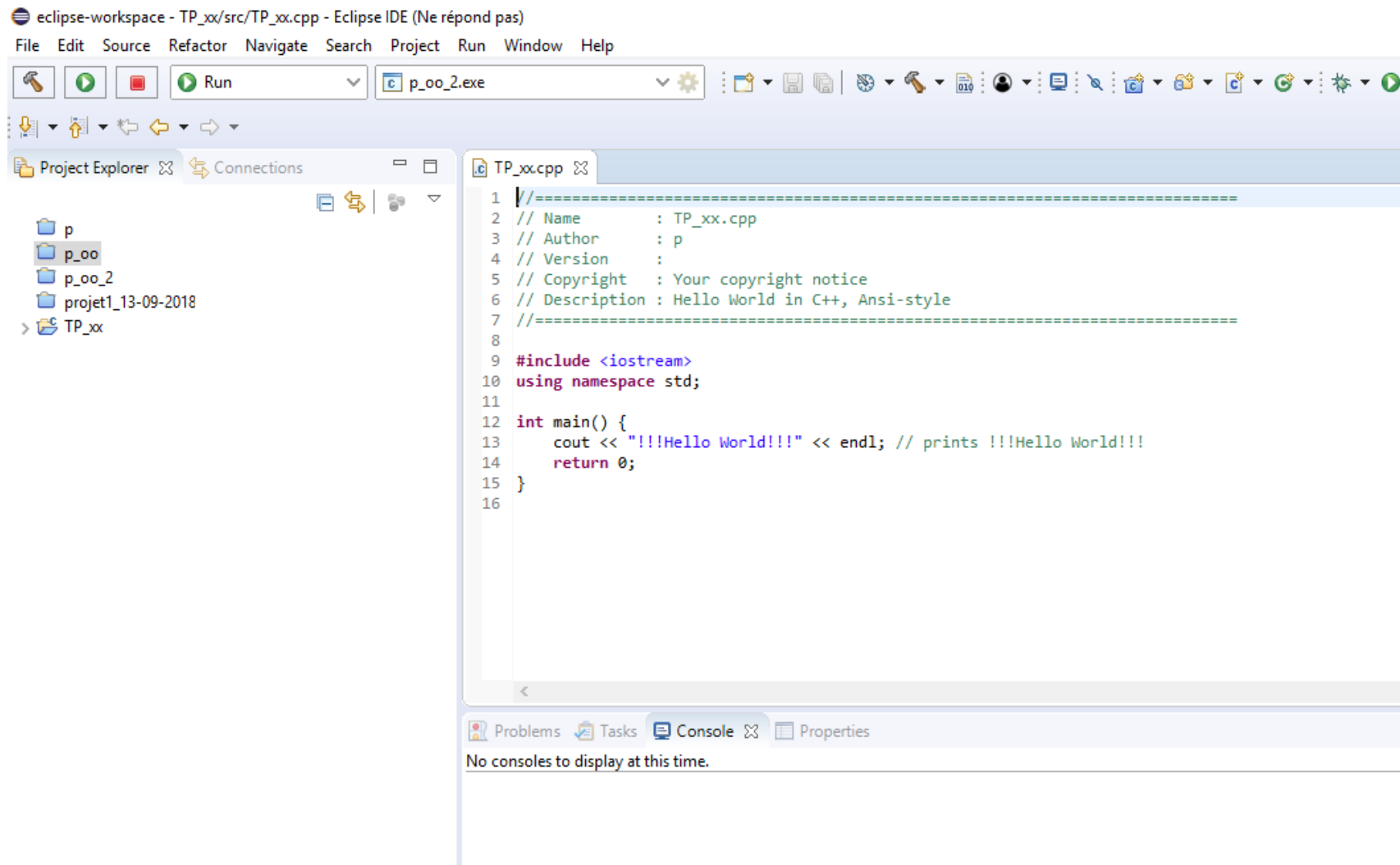
Choix du projet C++



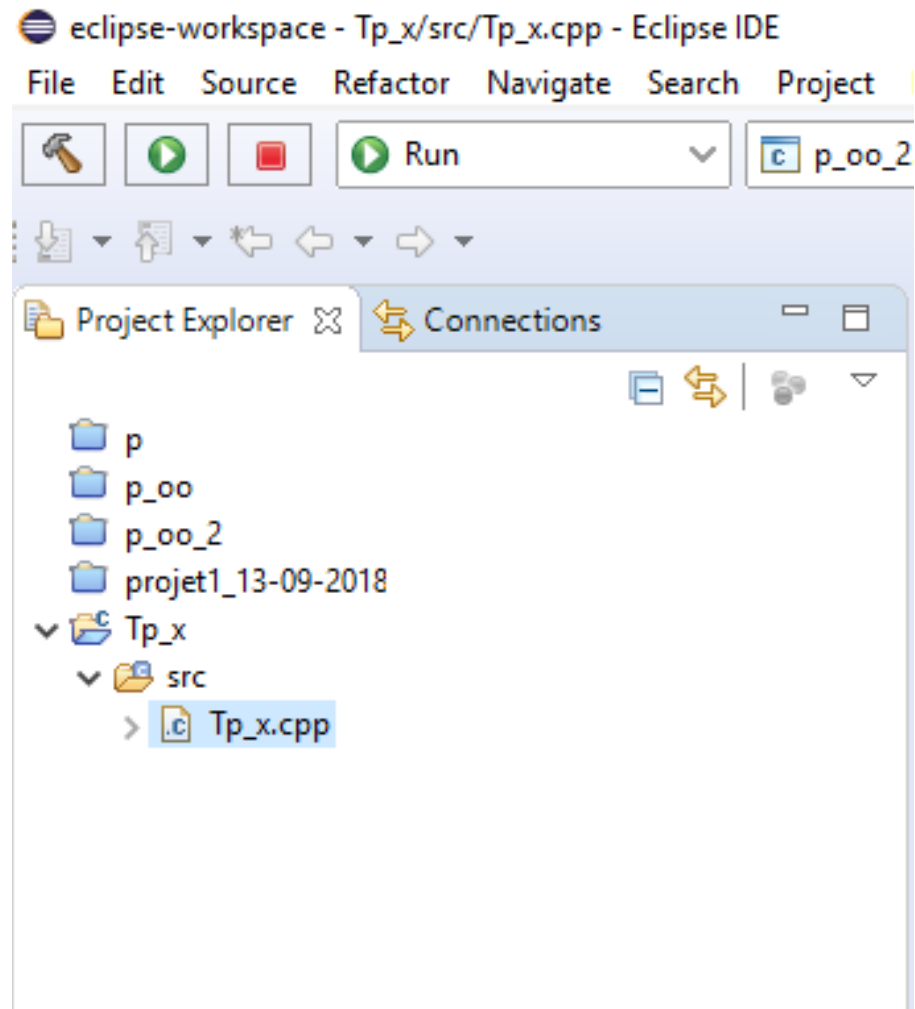
Nom du TP+choix du compilateur



Fin de création du projet TP



Fin de création du projet TP

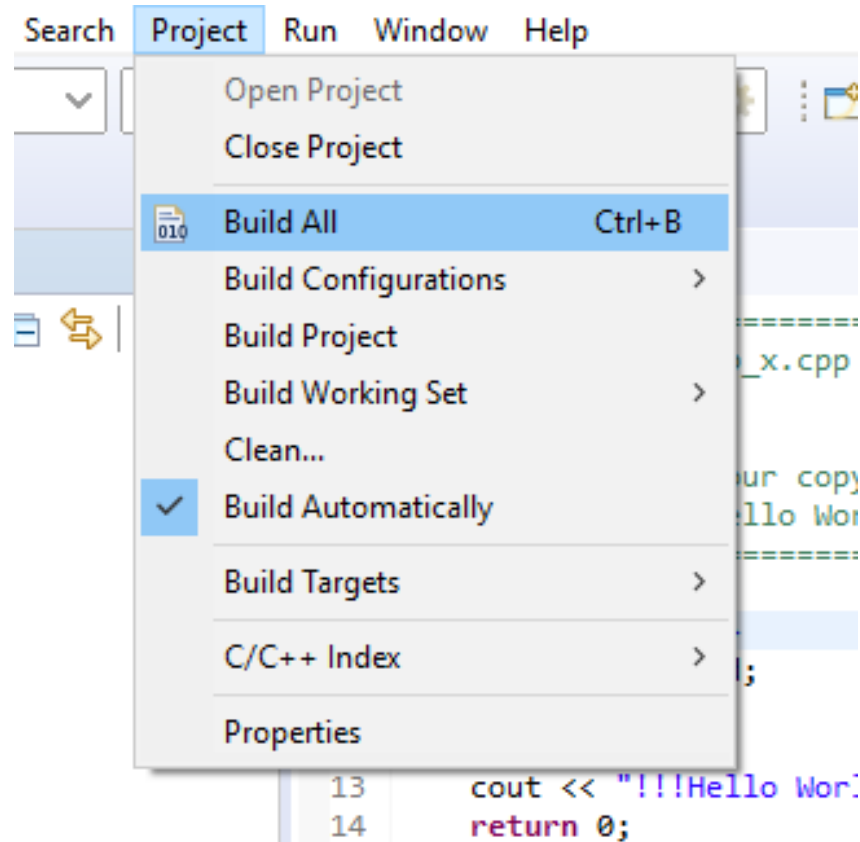


Fin de création du projet TP

📄 Tp_x.cpp

```
1 //=====
2 // Name      : Tp_x.cpp
3 // Author    : p
4 // Version   :
5 // Copyright  : Your copyright notice
6 // Description : Hello World in C++, Ansi-style
7 //=====
8
9 #include <iostream>
10 using namespace std;
11
12 int main() {
13     cout << "!!!Hello World!!!" << endl; // prints !!!Hello World!!!
14     return 0;
15 }
16
```

Compilation: Building of object code



Compilation: results on console

```
8
9 #include <iostream>
10 using namespace std;
11
12 int main() {
13     cout << "!!!Hello World!!!" << endl; // prints !!!Hello World!!!
14     return 0;
15 }
16
```

Problems Tasks Console Properties

CDT Build Console [Tp_x]

make all

Building file: ../src/Tp_x.cpp

Invoking: Cygwin C++ Compiler

g++ -O0 -g3 -Wall -c -fmessage-length=0 -MMD -MP -MF"src/Tp_x.d" -MT"src/Tp_x.o" -o "src/Tp_x.o" "../src/Tp_x.cpp"

Finished building: ../src/Tp_x.cpp

Building target: Tp_x.exe

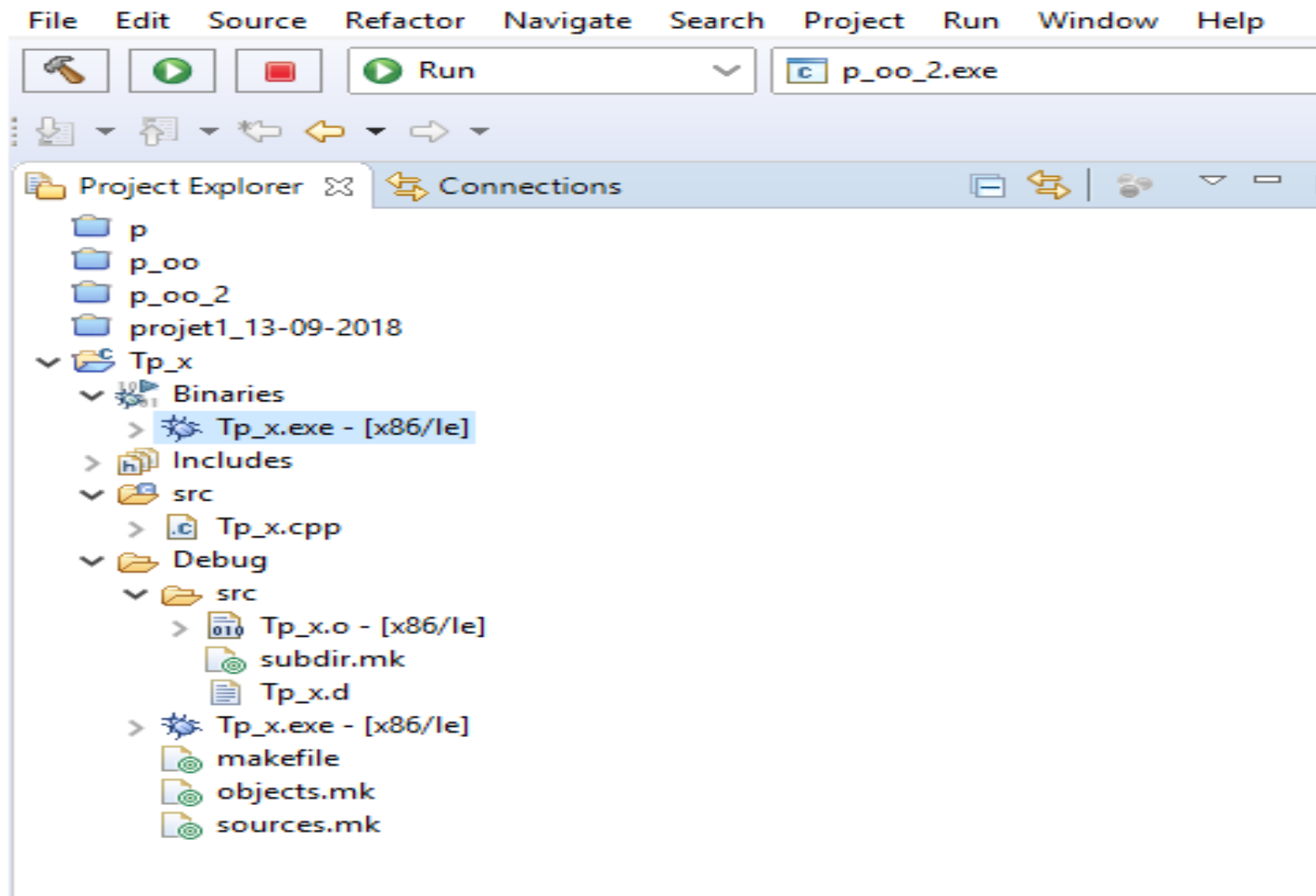
Invoking: Cygwin C++ Linker

g++ -o "Tp_x.exe" ./src/Tp_x.o

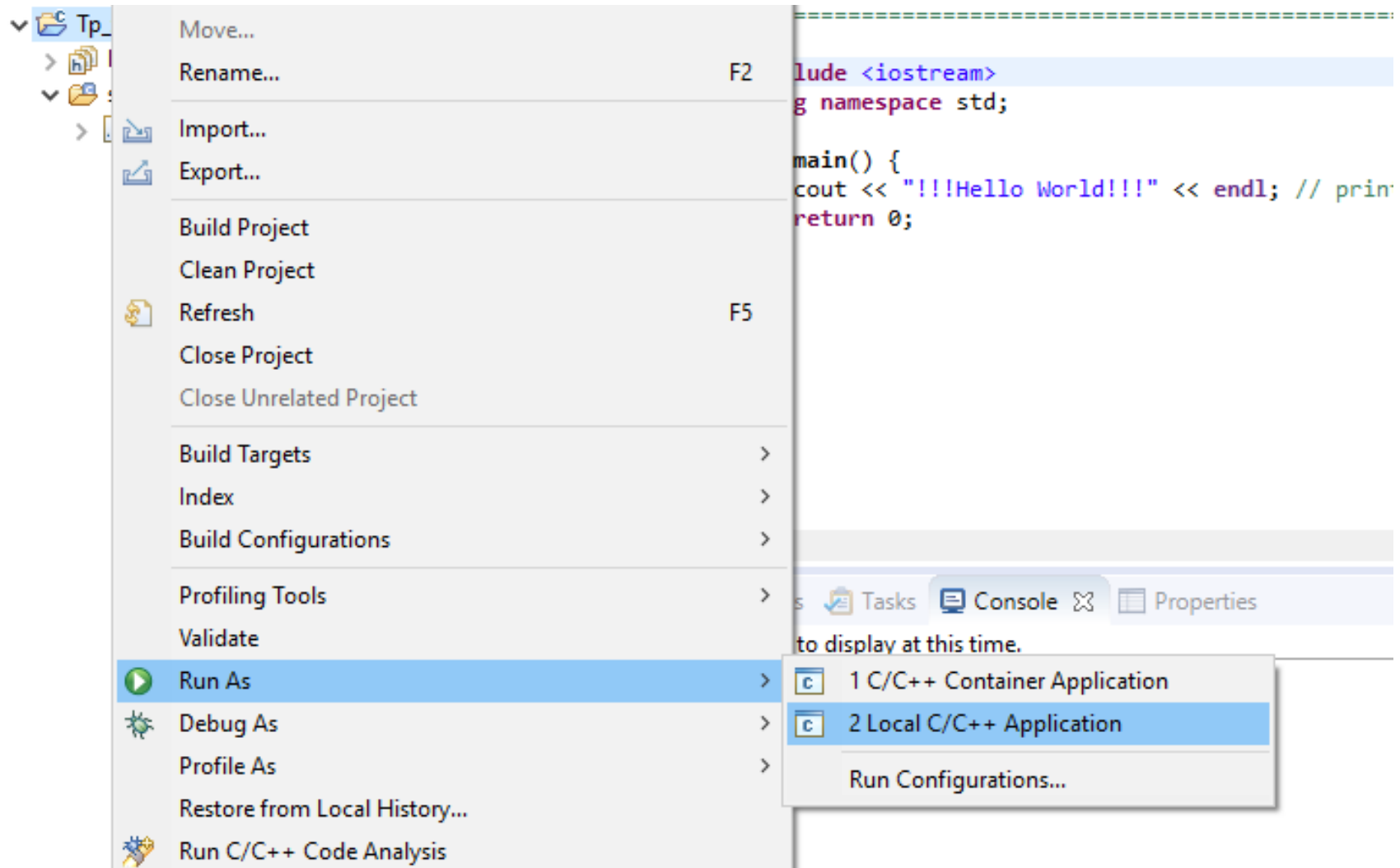
Finished building target: Tp_x.exe

22:56:53 Build Finished. 0 errors, 0 warnings. (took 6s.224ms)

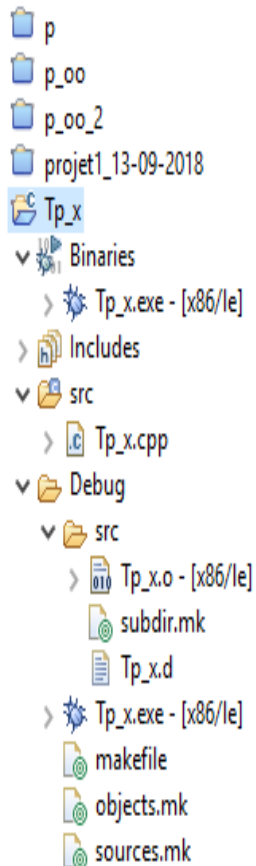
Compilation: resulted files



Exécuter un projet C++



Exécuter un projet C++: resultats



```
2 // Name      : tp_x.cpp
3 // Author    : p
4 // Version   :
5 // Copyright  : Your copyright notice
6 // Description: Hello World in C++, Ansi-style
7 //=====
8
9 #include <iostream>
10 using namespace std;
11
12 int main() {
13     cout << "!!!Hello World!!!" << endl; // prints !!!Hello World!!!
14     return 0;
15 }
16
```

The bottom of the image shows the Eclipse IDE's console window. It displays the output of the program:

```
<terminated> (exit value: 0) Tp_x.exe [C/C++ Application] C:\Users\BENMEDDOUR Tarek\eclipse-workspace\Tp_x\Debug\Tp_x.exe (16/0)
!!!Hello World!!!
```