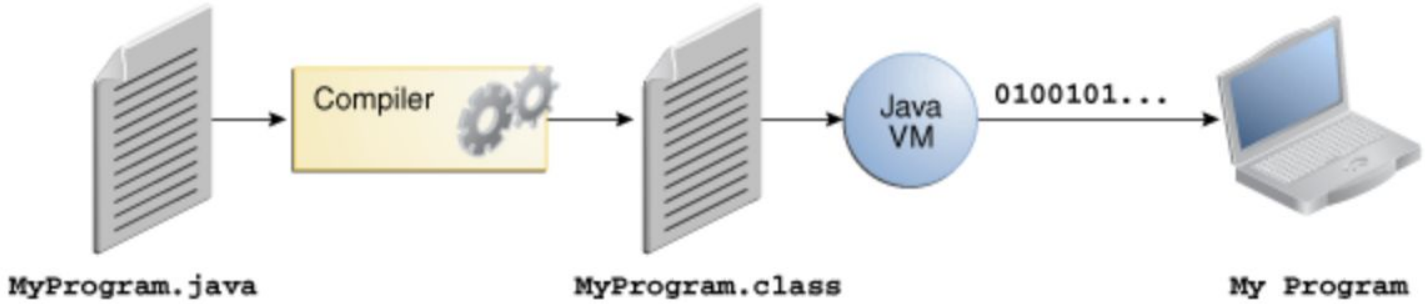
SFU

CMPT 225

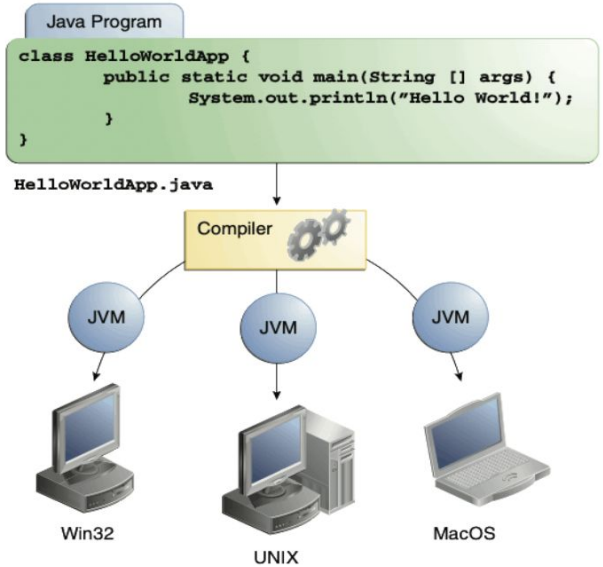
Lab - Week 02

A Short Introduction



Source: https://docs.oracle.com/

Platform Independence



Through the Java VM, the same application is capable of running on multiple platforms.

Source:https://docs.oracle.com/

Setup Java Development Environment

Install JDK to compile your code

Install Java Runtime Environment to run your program

Check with below commands

javac -version

java -version

First Program Using Terminal

We save below code in HelloWorld.java, and compile it with ***javac HelloWorld.java***

```
public class HelloWorld {

   public static void main(String[] args){

        System.out.println("Hello World");

   }

}
```

It generated a file HelloWorld.class ,we then run the class file using (Note that there is no .class in below command)

java HelloWorld

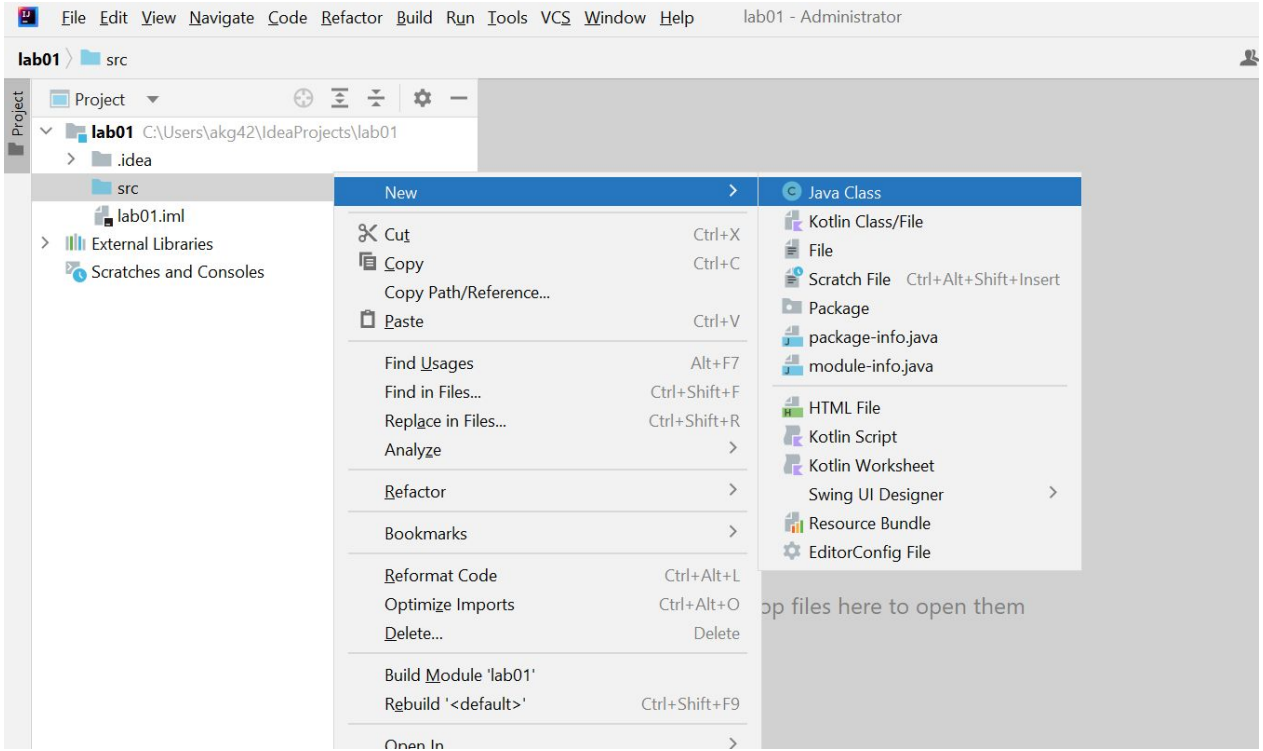
Setup IntelliJ

Install IntelliJ (or eclipse on any other IDE of your choice)

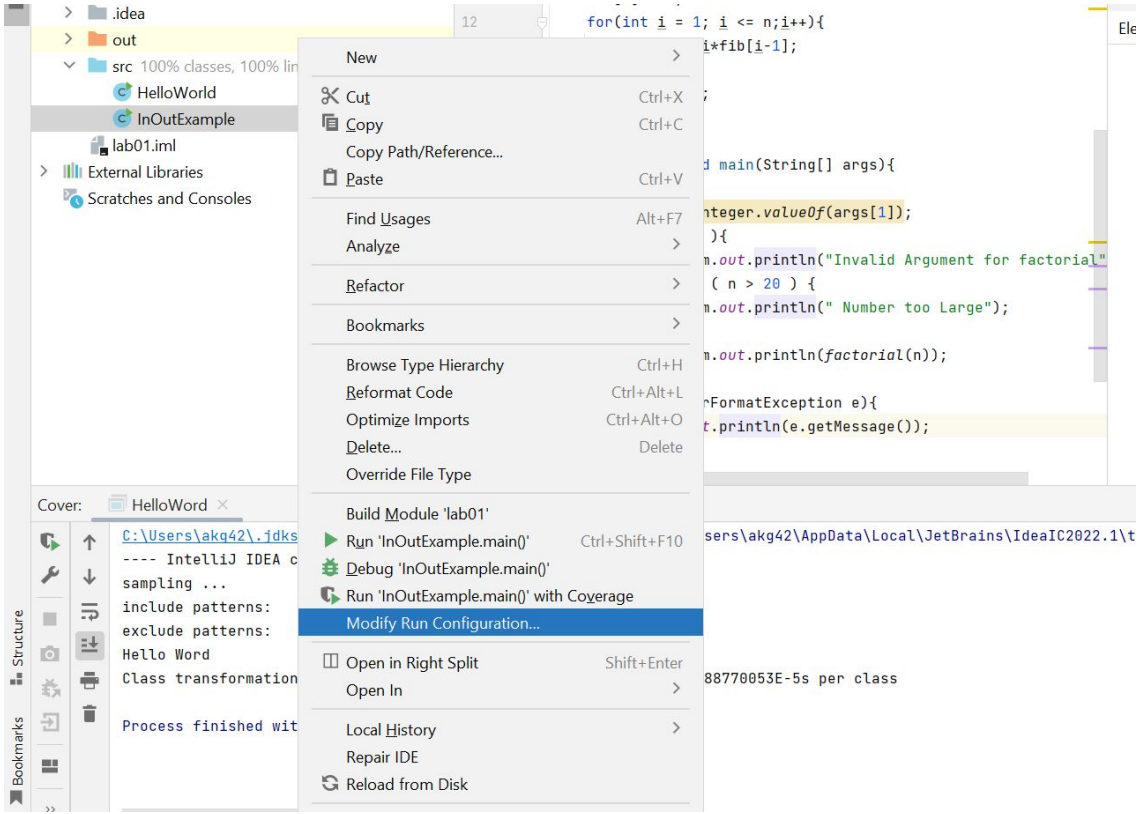
Create a new java project

file->new->project

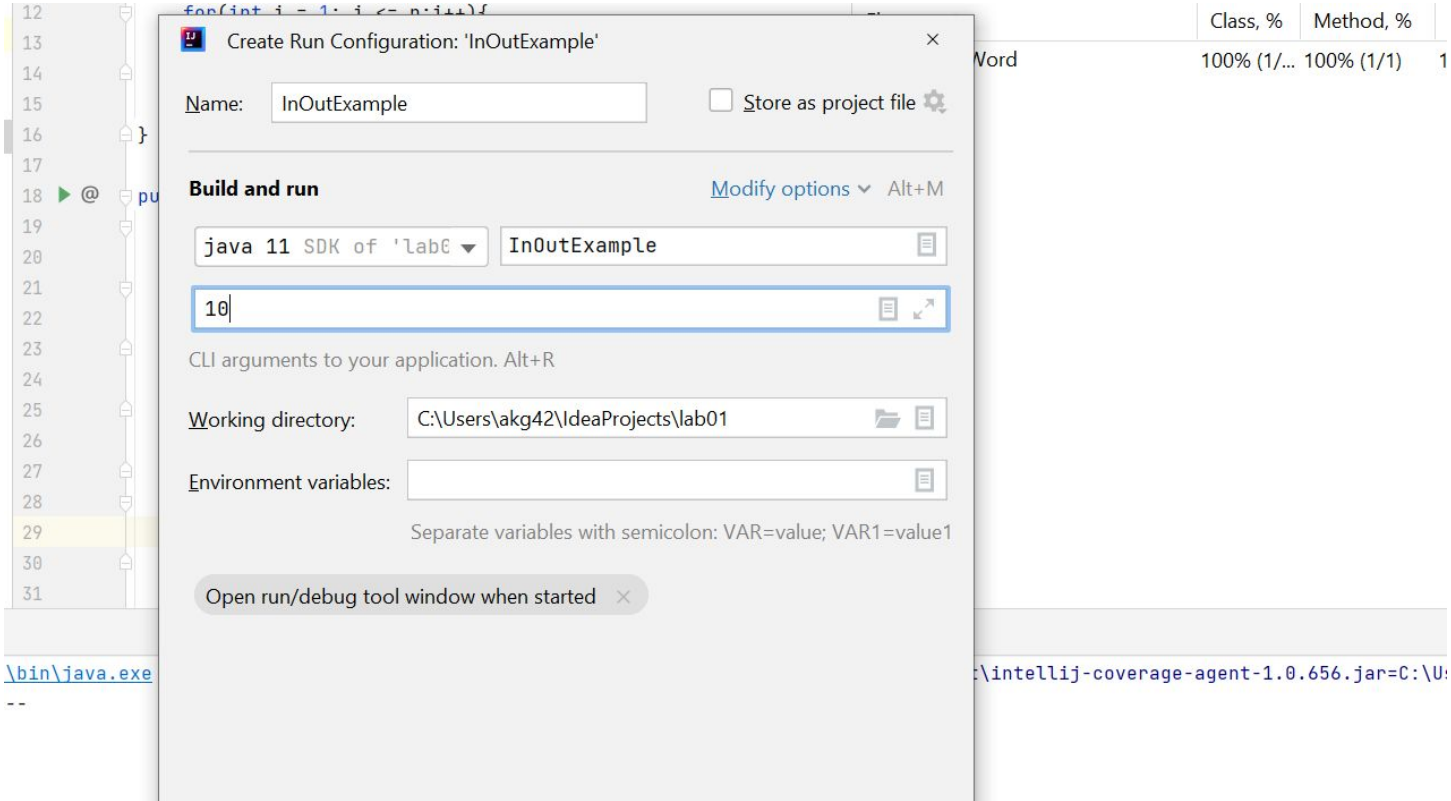
Add a new class



Pass Runtime Arguments



...


Create Run Configuration: 'InOutExample'
Name: InOutExample
Store as project file
Build and run
Modify options Alt+M
java 11 SDK of 'lab0
InOutExample
10
CLI arguments to your application. Alt+R
Working directory: C:\Users\akg42\IdeaProjects\lab01
Environment variables:
Separate variables with semicolon: VAR=value; VAR1=value1
Open run/debug tool window when started
Class, %
Method, %
Word
100% (1/...
100% (1/1)
\bin\java.exe
\intellij-coverage-agent-1.0.656.jar=C:\U
--

Debugging

Setup break points and select Debug after right click.

Primitive Data Types in Java

Total 8 primitive types

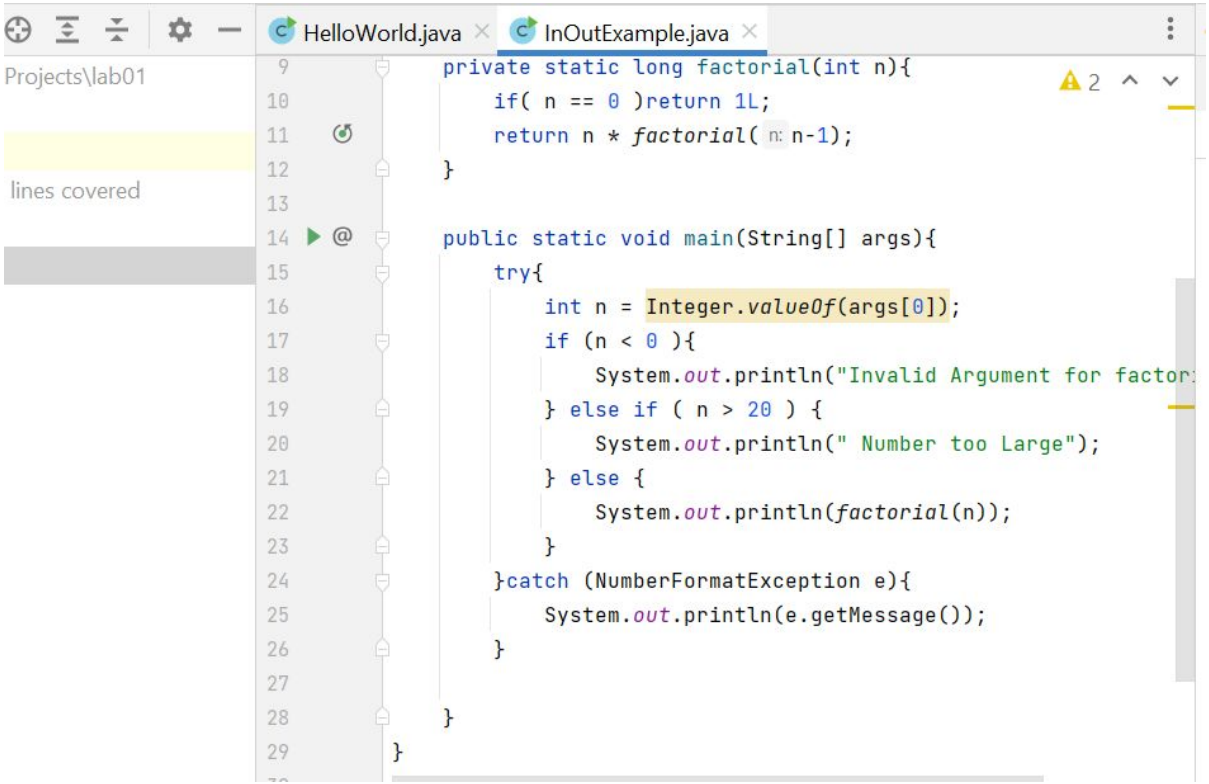
byte , short, int, long

char, boolean

double, float

*Primitive values do not share state with other primitive values

Run and Debug in IntelliJ



SSH to CSIL

SFU

Guides

https://www.sfu.ca/fas/computing/support/csil/remote-access.html

Open a terminal and use -

ssh **-p** 24 ssh **-p** 24 <sfu username>@<name of a CSIL Linux CPU server>

After logging in, you can check if it has java.

Then you can also copy your files to CSIL machine using scp

scp src/Hello.java **-p** 24 ssh **-p** 24 <sfu username>@<name of a CSIL Linux CPU server>:/home/<sfu username>