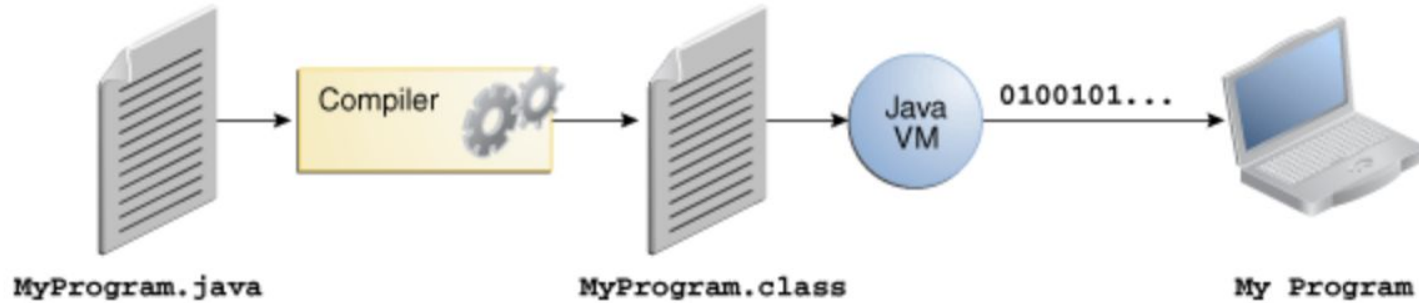


# CMPT 225

Lab 01  
Spring 2023

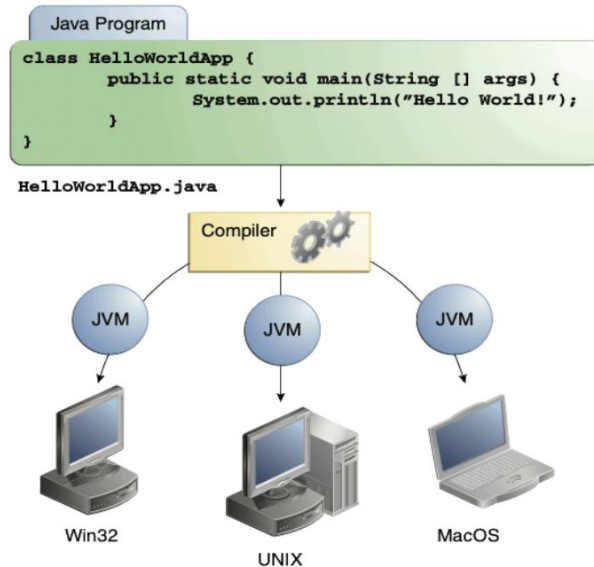
# A Short Introduction

SFU



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***

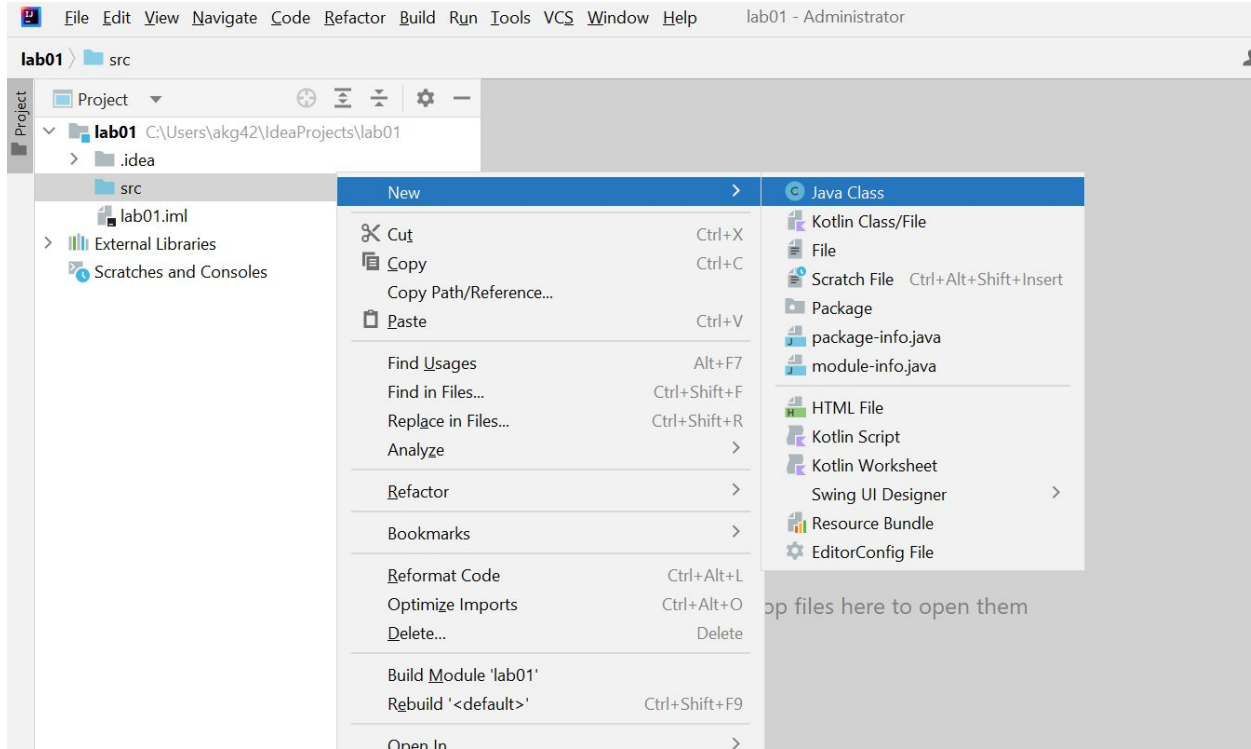
# Setup IntelliJ

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

Create a new java project

file->new->project

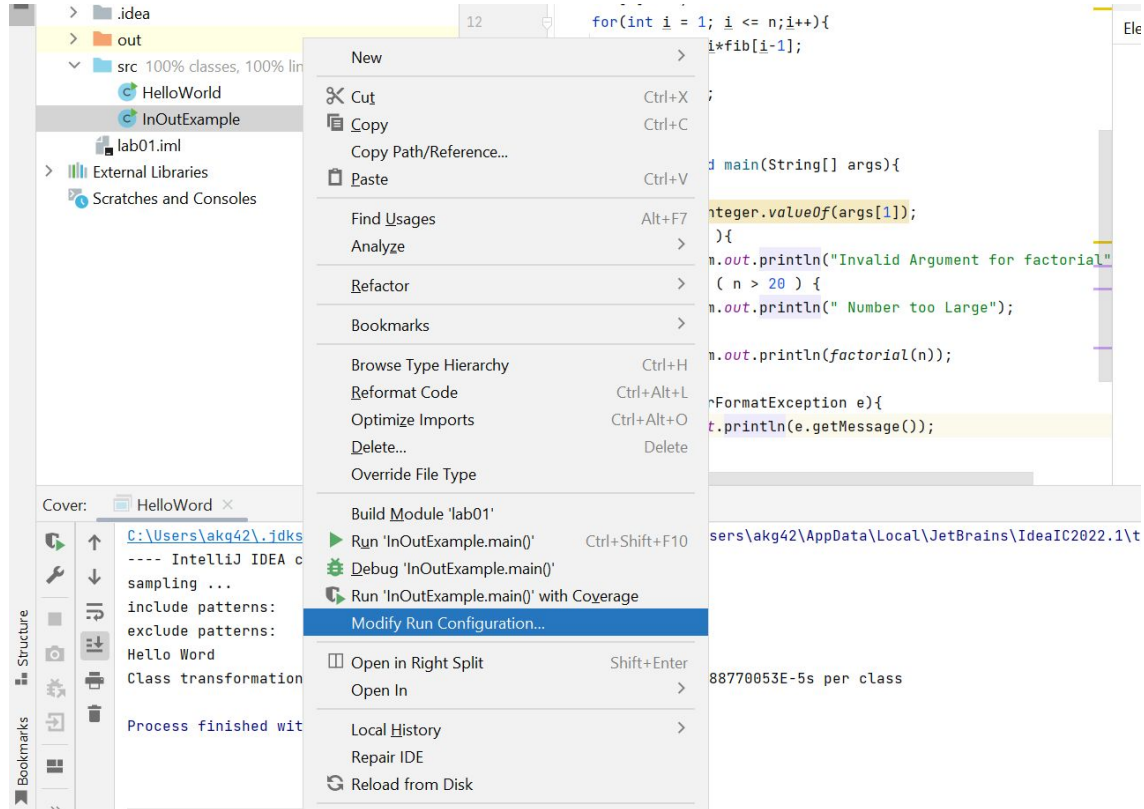
# Add a new class



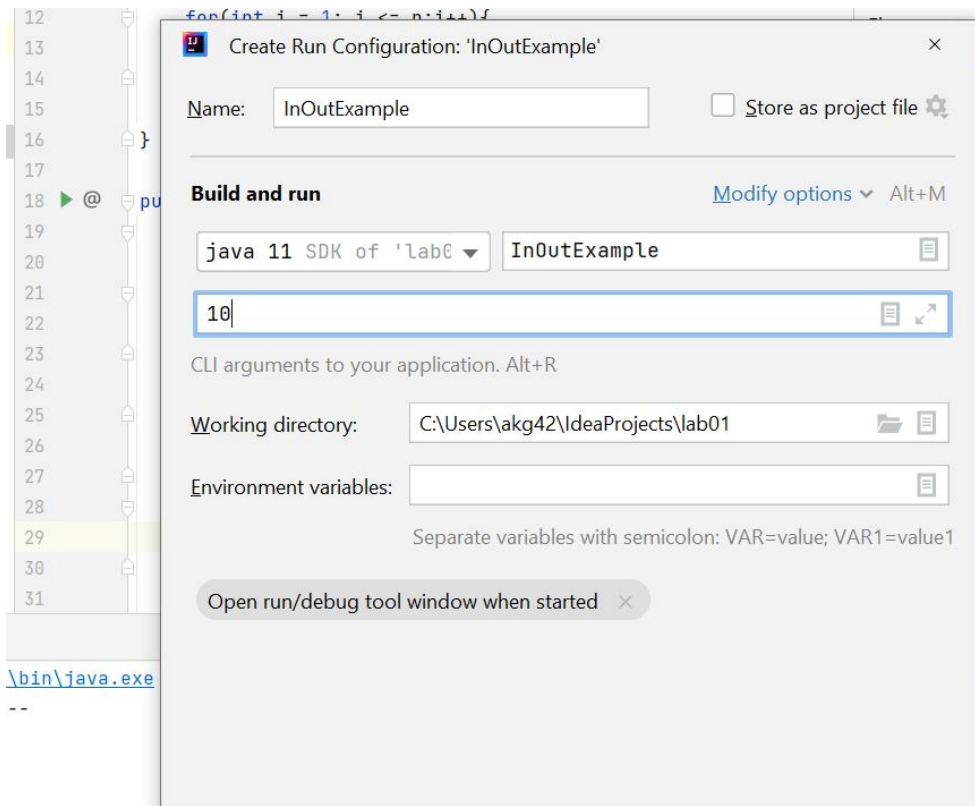
SFU

# Pass Runtime Arguments

SFU







	Class, %	Method, %	
Word	100% (1/...	100% (1/1)	1

C:\Users\akg42\IdeaProjects\lab01\src\main\java\com\example\InOutExample.java

# Debugging

Setup break points and select Debug after right click.

# Primitive Data Types in Java

Total 8 primitive types

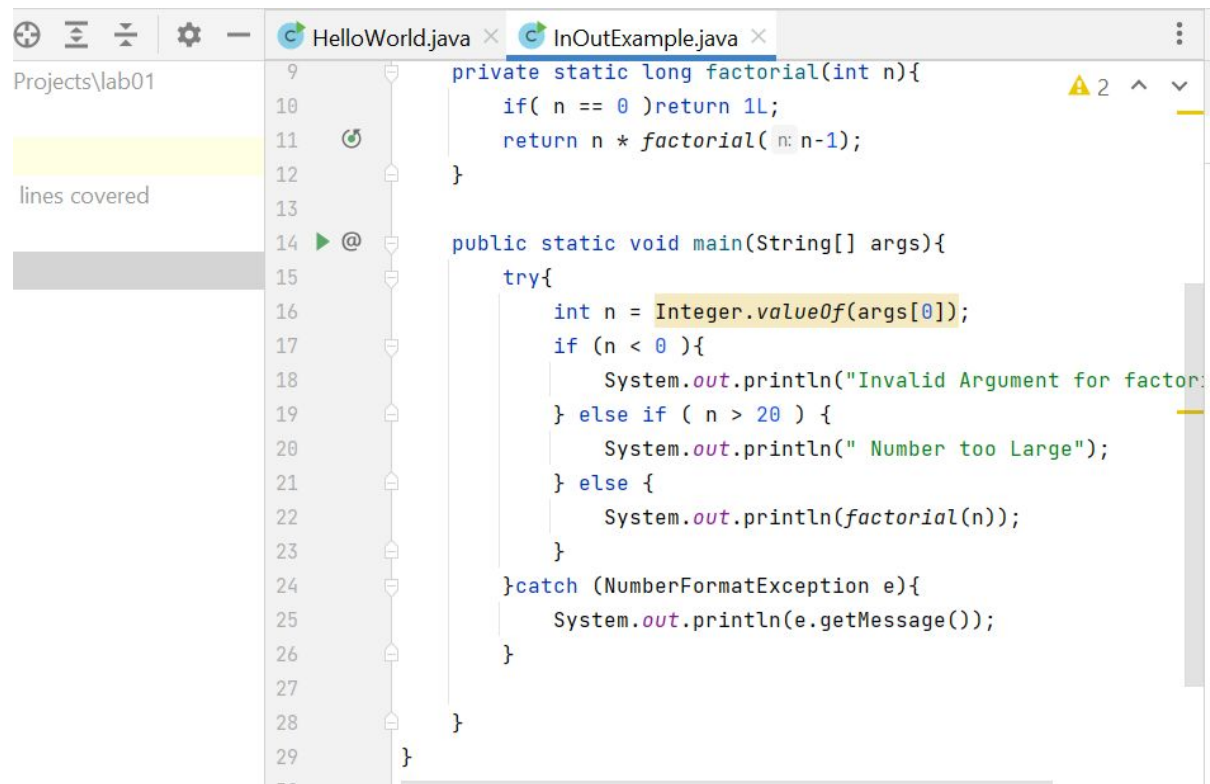
**byte , short, int, long**

**char, boolean**

**double, float**

\*Primitive values do not share state with other primitive values

## Run and Debug in IntelliJ



SFU

# SSH to CSIL

The logo of Simon Fraser University (SFU) is located in the top right corner. It consists of the letters "SFU" in a white, bold, sans-serif font, centered within a solid red rectangular background.

## Guides

<https://www2.cs.sfu.ca/~wsumner/accessing-csil-remotely.html>

<http://www.sfu.ca/computing/about/support/csil/unix/how-to-use-csil-linux-cpu-server.html>

Open a terminal and use -

```
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 <sfu username>@<name of a CSIL Linux CPU server>:/home/<sfu username>
```