Assignment 1

Install Java 17 (ideally OpenJDK), INTELLIJ IDE Ultimate, Maven and then run an ultraeasy Spring Boot Hello World.

This will be an exercise in problem solving for many of you but spend some time and really try to figure it out on your own (with Google!). You'll be glad you did! I will not be holding your hand in this course, and instead expect you to use all legit resources you have available!

Step 1:

Download JDK 17 (https://adoptium.net/)
Use this video as a reference (https://adoptium.net/)

Step 2:

<u>Intellij IDE</u> - Feel free to download Intellij from this website and utilize the Ultimate Edition using your sheridan email address. It is free for students. Follow the steps on this website

https://www.jetbrains.com/community/education/#students

Step 3:

Apache Maven

Download the latest version

Step 4:

After all the environment variables are set (for Java and Maven)
Try to run these commands on your command prompt or terminal (mac users)

These screenshots are captured from Mac, windows command prompt might be a little different

java --version

```
→ ~ java --version
openjdk 17.0.7 2023-04-18
OpenJDK Runtime Environment Homebrew (build 17.0.7+0)
OpenJDK 64-Bit Server VM Homebrew (build 17.0.7+0, mixed mode, sharing)
→ ~ ■
```

mvn -v

```
Apache Maven 3.9.1 (2e178502fcdbffc201671fb2537d0cb4b4cc58f8)

Maven home: /usr/local/Cellar/maven/3.9.1/libexec

Java version: 17.0.7, vendor: Homebrew, runtime: /usr/local/Cellar/openjdk@17/17.0.7/libexec/openjdk.jdk/Contents/Home

Default locale: en_CA, platform encoding: UTF-8

05 name: "mac os x", version: "13.3.1", arch: "x86_64", family: "mac"

→ ~ ■
```

Alright, at this point, software installations are done

Step 5:

Creating a Spring Boot Application

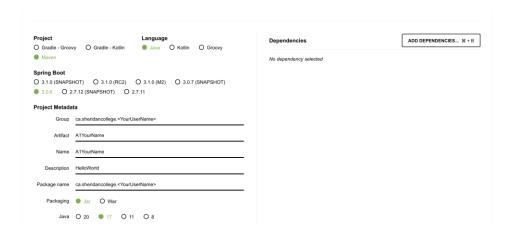
Open this link https://start.spring.io/. This is the spring starter initialiser. We will be making use of this in order to create our spring applications.

Change the group field to ca.sheridancollege.<YourUserName>, where <YourUserName> is your Sheridan username or email alias.

The Artifact ID is the name of this project at your URL, and should reflect your project name of A1YourName all by itself.

The Version is fine for now. The Description is fine for something as simple as HelloWorld at least too.

Change the Package field to ca.sheridancollege.<yourUserName> just like we did with the group ID. Click

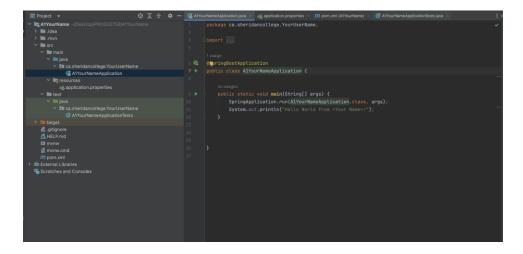


Once you have made the selections, click on **Generate** and that would download a zip folder for you with the name AlYourName.

That is the project that you would be working on in your IDE.

Import the project to your IDE

This is how your folder structure should look like.



Type

System.out.println("Hello World from <Your Name>!");

at the bottom of the A1YourNameApplication main method. (as in the screenshot)

Now Run your application by clicking on that green inverted triangle with A1YourNameApplication, then clicking Run A1YourNameApplication.

This is how your application should look like.

```
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Take a screenshot of this, save it as a JPEG or PNG with your name as the filename (YourName.PNG, for example), and upload it to the exercise submission folder.

Type

Assertions.assertTrue(true);

in the contextLoads method as in the screenshot below.

Now run this command, mvn clean install in the terminal window of your IntelliJ IDE as shown in the below screenshot

Once you run this, you should see a screen like this.

```
2023-05-07110:08:22.145-04:00 INFO 8050 --- [ sain] c.s.Y.AlYourNameApplicationTests : No active profile set, falling back to 1 default profile: "def 2023-05-07110:08:22.145-04:00 INFO 8050 --- [ sain] c.s.Y.AlYourNameApplicationTests : Started AlYourNameApplicationTests in 0.597 seconds (process r no for 1.361)
[INFO] [INFO] Results:
[INFO] Results:
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 1.378 s - in ca.sheridancollege.YourUserName.AlYourNameApplicationTests

[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
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[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
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[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
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[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO] Tests run: 1, Failures: 0, Err
```

At this stage, take another screenshot, save it as a JPEG or PNG with your name as the filename (YourName-2.PNG, for example), and upload it to the exercise submission folder.

Do not upload screenshots in a Word doc or a zip of them or anything else. With images I can easily and directly connect to you through your filename, the marking on my end is simplified. I will eventually deduct marks if you refuse to follow this simple procedure.