JavaFX Instructions for Java 11 / 12

- 1. Download the JavaFX SDK, either Windows or MacOS X, from: https://gluonhq.com/products/javafx/
- 2. Unzip this into a directory that you'll remember for Step 5. I created a folder inside Java folder. Once unzipped, checkout the JAR files inside lib folder. You should see 8 of them.

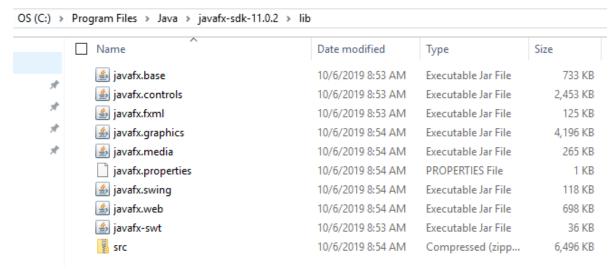


Figure 1: JavaFX lib files

- 3. In Eclipse, create a project as usual. (I named it as GUIProject)
- 4. Right click on Project folder, go to **Build Path** → **Add External Archives**
- 5. Navigate to the path where you unzipped JavaFX and go to lib folder to see those 8 JARs. Select all 8 of them and include them to show up in the build path (Fig.2)
- 6. Now we will write a small JavaFX application. Create a package (I called in javafxtest). Inside, create a class named HelloWorld.java with code as shown below. If you do not see

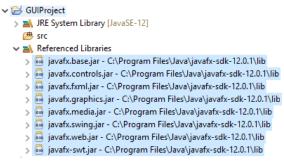


Figure 2: JavaFX in build path

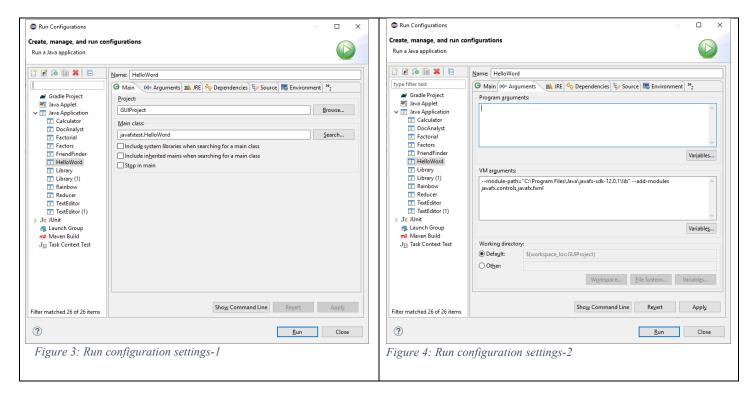
any compilation errors, it means that you got JavaFX into your build path correctly.

```
package javafxtest;
import javafx.application.Application;
import javafx.scene.Scene;
import javafx.scene.layout.BorderPane;
import javafx.scene.text.Text;
import javafx.stage.Stage;
public class HelloWord extends Application{
        @Override
        public void start(Stage arg0) throws Exception {
                BorderPane root = new BorderPane();
                Text message = new Text ("Hello World!");
                root.setCenter(message);
                Scene scene = new Scene(root, 100, 100);
                arg0.setScene(scene);
                arg0.show();
        public static void main(String[] args) {
                Launch(args);
        }
```

7. Now, run the file. You will see an error message on console.

8. Right click on HelloWorld.java in the left panel. Choose Run As → Run Configurations. Check the Project and Main class names (Fig 3). Then go to Arguments tab and type in the string shown below in VM Arguments box. (Fig 4). Note that the path name is of those 8 jar files from step 2.

--module-path="C:\Program Files\Java\javafx-sdk-11.0.2\lib" --add-modules javafx.controls,javafx.fxml



9. Click Run. You should see a small window with Hello World! message.

