

## ✓ Step 1: Check Your Setup

- **Java Version:** You need **JDK 14 or later** (check with `java -version`).
  - **JavaFX SDK:** Download from <https://openjfx.io> and extract it.
    - Example path:
      - Windows: `C:\javafx-sdk-21`
      - macOS/Linux: `/opt/javafx-sdk-21`
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## ✓ Step 2: Compile Your Project

From your project folder:

Shell

`mkdir out`

```
javac --module-path "C:\javafx-sdk-21\lib" --add-modules javafx.controls,javafx.fxml -d out $(find .  
-name "*.java")
```

Show more lines

*(Adjust path for macOS/Linux.)*

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## ✓ Step 3: Create JAR

Create a manifest file `manifest.mf`:

```
None
```

```
Manifest-Version: 1.0
```

```
Main-Class: your.package.MainClass
```

Then package:

Shell

```
jar cfm MyApp.jar manifest.mf -C out .
```

Show more lines

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## ✓ Step 4: Use jpackage to Create a Native App

Run:

```
jpackage --name MyApp \  
--input . \  
--main-jar MyApp.jar \  
--main-class your.package.MainClass \  
--module-path "C:\javafx-sdk-21\lib" \  
--add-modules javafx.controls,javafx.fxml \  
--type exe  
Show more lines
```

## For macOS:

Shell

```
jpackage --name MyApp \  
--input . \  
--main-jar MyApp.jar \  
--main-class your.package.MainClass \  
--module-path /opt/javafx-sdk-21/lib \  
--add-modules javafx.controls,javafx.fxml \  
--type dmg
```

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This will create:

- **Windows:** MyApp.exe installer
- **macOS:** MyApp.dmg installer
- **Linux:** MyApp.deb or MyApp.rpm

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## ✅ Step 5: Double-Click and Run

After installation, you'll have a **native app icon** that launches without needing `java`

```
--module-path ....
```

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## ✅ Optional Enhancements:

- Add an **icon**: `--icon myicon.ico` (Windows) or `.icns` (macOS).
- Add **license, version, etc.** with `--app-version`, `--license-file`.

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🔥 **Result:** Your JavaFX app will behave like a normal desktop app—double-clickable, no command line needed.