

How to Create a JAR File in Eclipse

There are several ways to create a JAR (Java Archive) file.

This guide walks you through one of the methods using Eclipse IDE.

Requirements

Before starting, make sure you have the following ready:

-  Eclipse IDE (latest version recommended)

<https://www.eclipse.org/downloads>

-  Java Development Kit (JDK 17 or newer)

<https://www.oracle.com/java/technologies/javase/jdk17-archive-downloads.html>

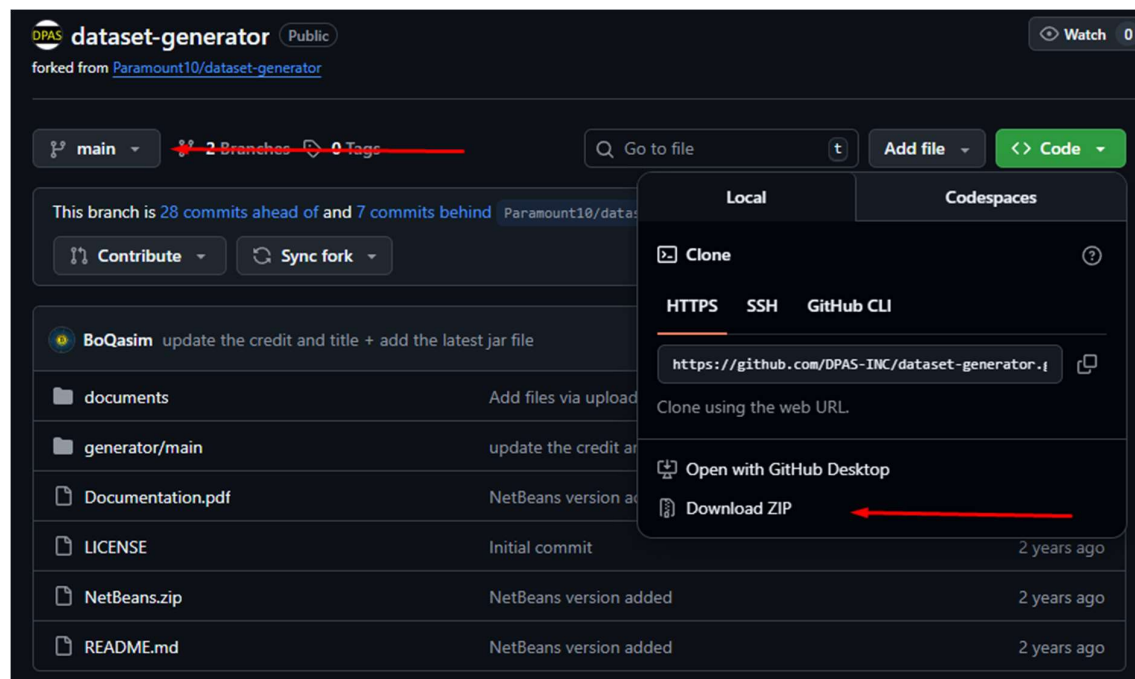
Step 1: Download the Project from GitHub

1. Visit the GitHub repository: <https://github.com/DPAS-INC/dataset-generator>

Make sure you're on the main branch.

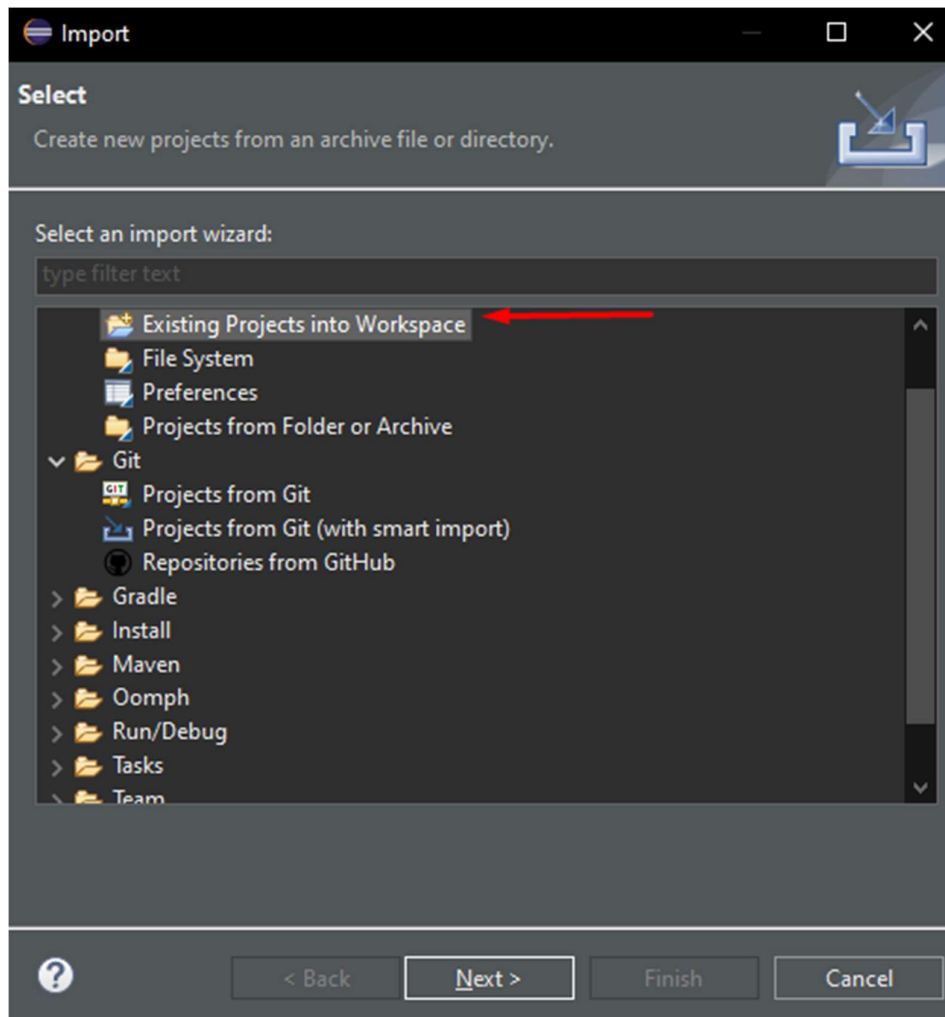
2. Click Code → Download ZIP.

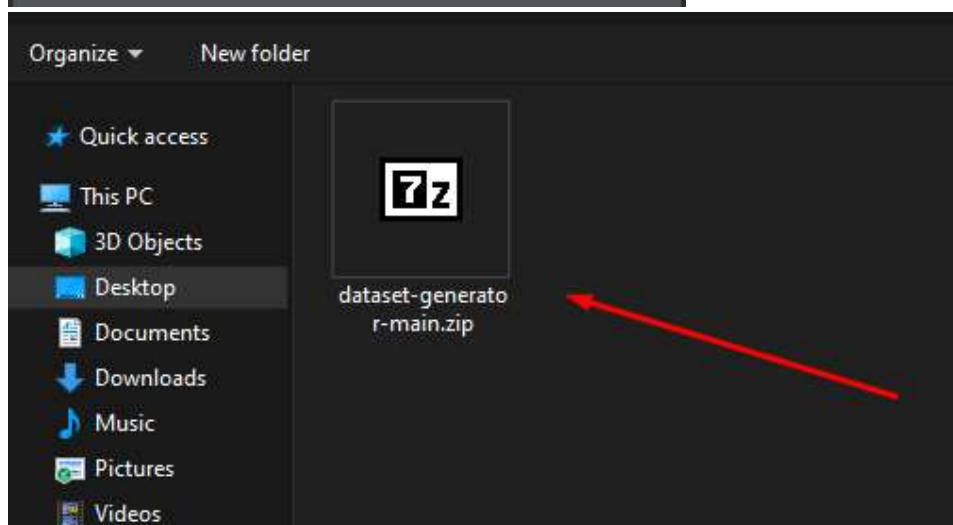
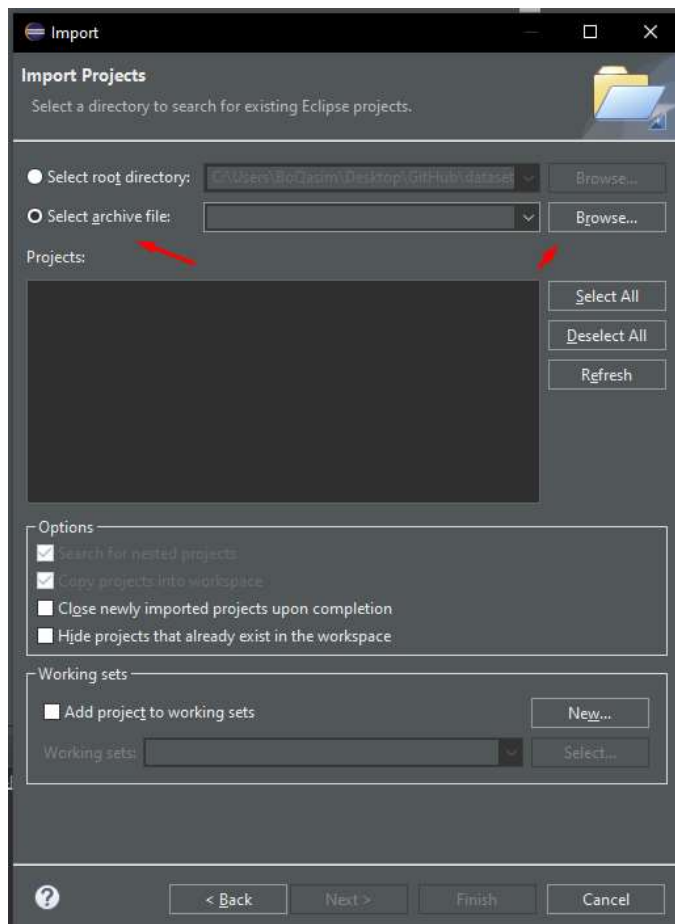
 **Example screenshot:**

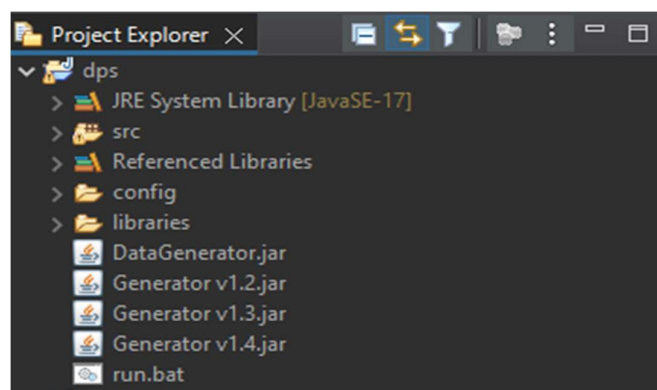
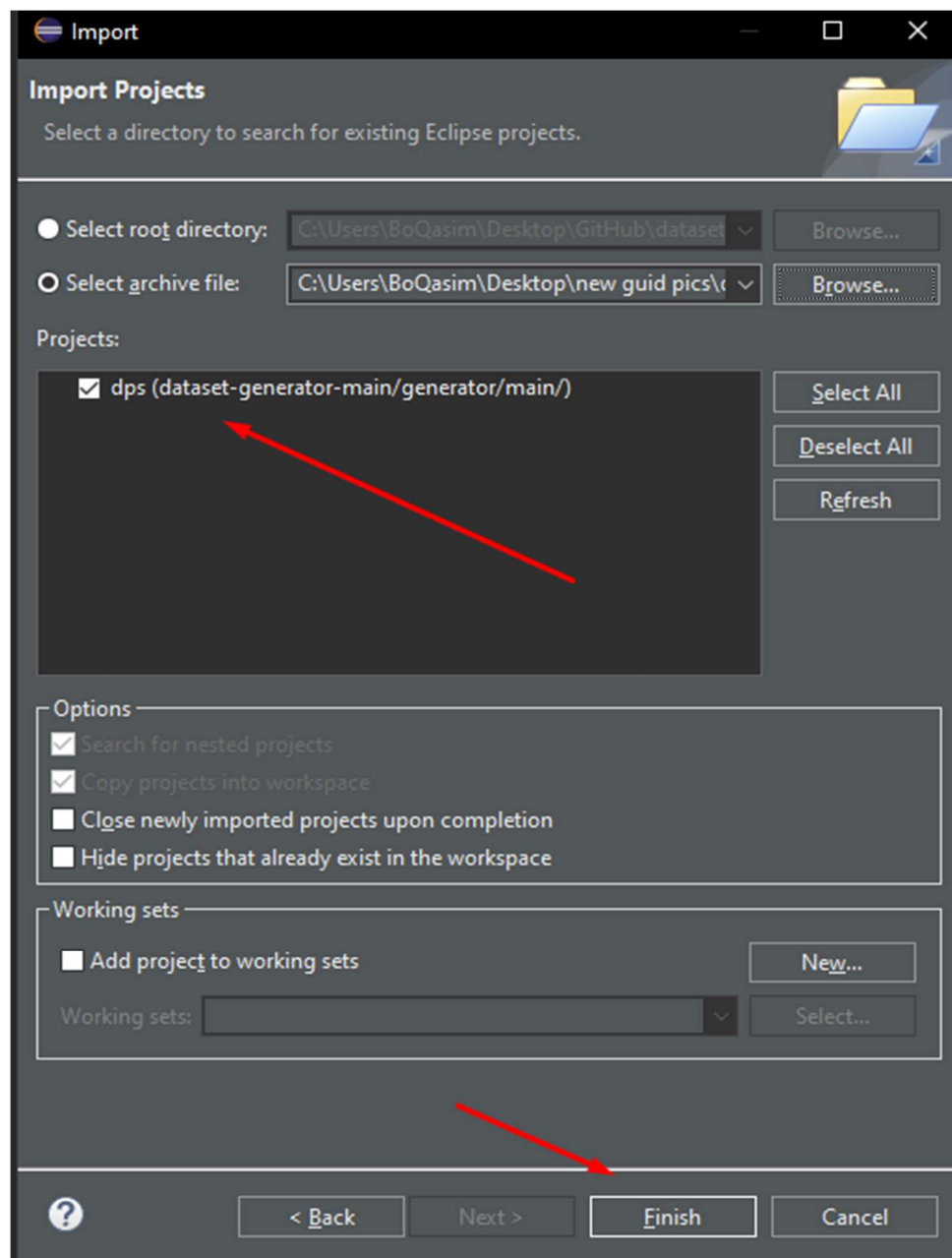


Step 2: Import the Project

3. Open Eclipse IDE.
4. Navigate to File → Import → Existing Projects into Workspace
5. Select “Select archive file”, then browse to your downloaded ZIP file (dataset-generator-main.zip).
6. Eclipse will detect the project automatically (for example, dps). Check the box beside it and click Finish.
7. 📷 *Example screenshot:*



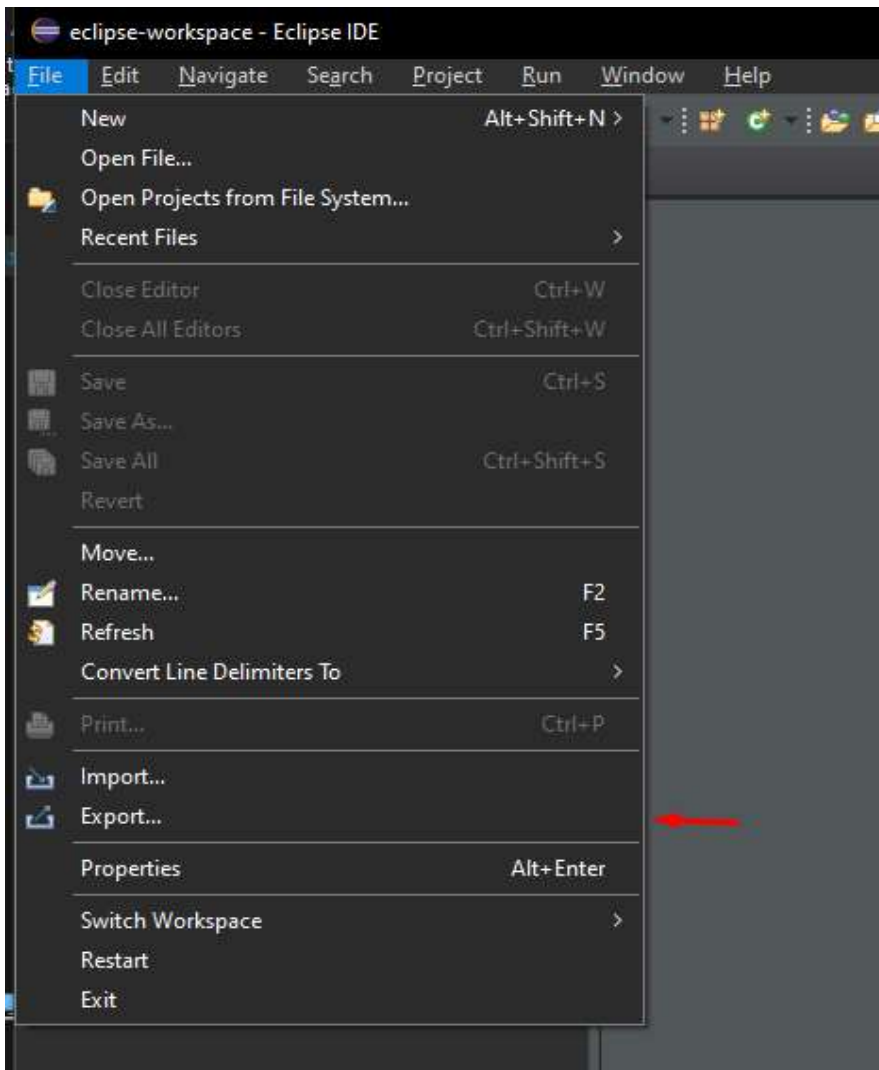


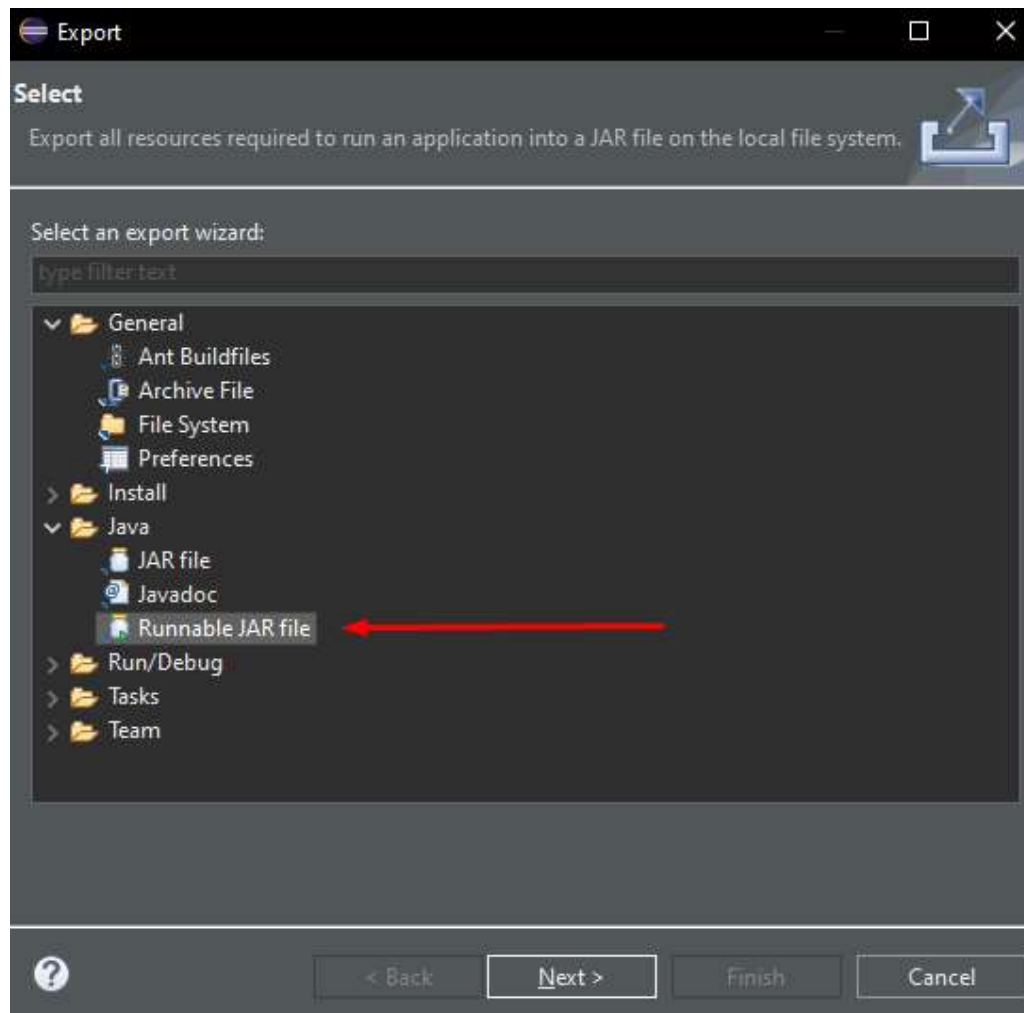


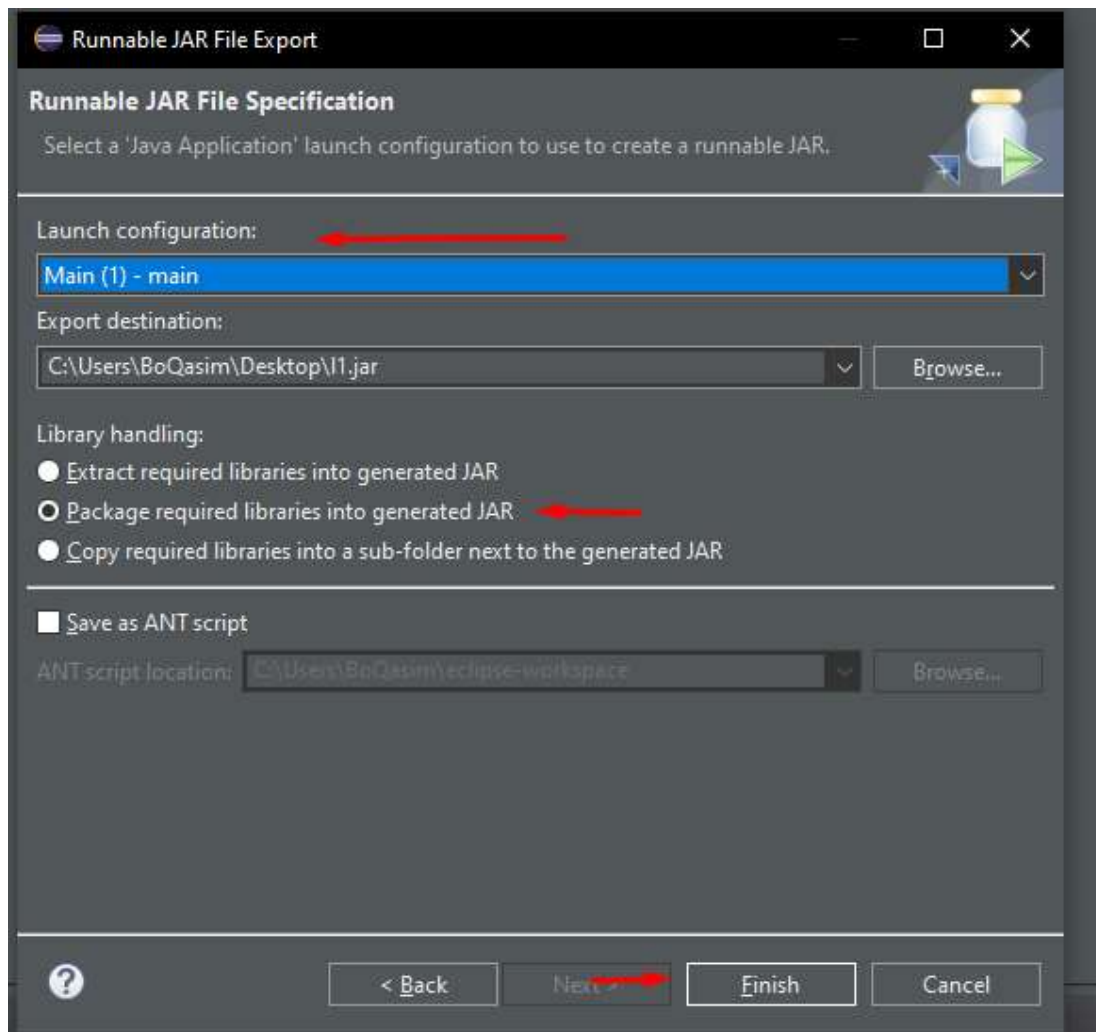
Step 4: Export the Project as a Runnable (Fat) JAR

1. Go to File → Export.
2. Under Java, select Runnable JAR file and click Next.
3. Configure the export options as follows:
 - Launch configuration: select your project's main class.
 - Export destination: choose the location where the JAR file will be saved.
 - Library handling: select
👉 *"Package required libraries into generated JAR."*
4. Click Finish to create the JAR file.

📷 **Example screenshot:**



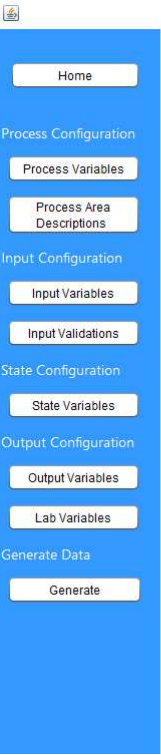




Step 4: Verify the Generated JAR

1. Open the folder where the exported .jar file was saved.
2. Double-click the file to run it, or use a terminal: `java -jar filename.jar`
3. Confirm that your program launches successfully and works as expected.

 **Example screenshot:**



Dataset Generator, Pat Dixon, Alia Rezvi,
Mohammed Almakki, Grace Mower, Zaid Taiyab,
Deepak Dalai, (DPAS Inc), 2025

Load Configurations