

## 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.

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### 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)

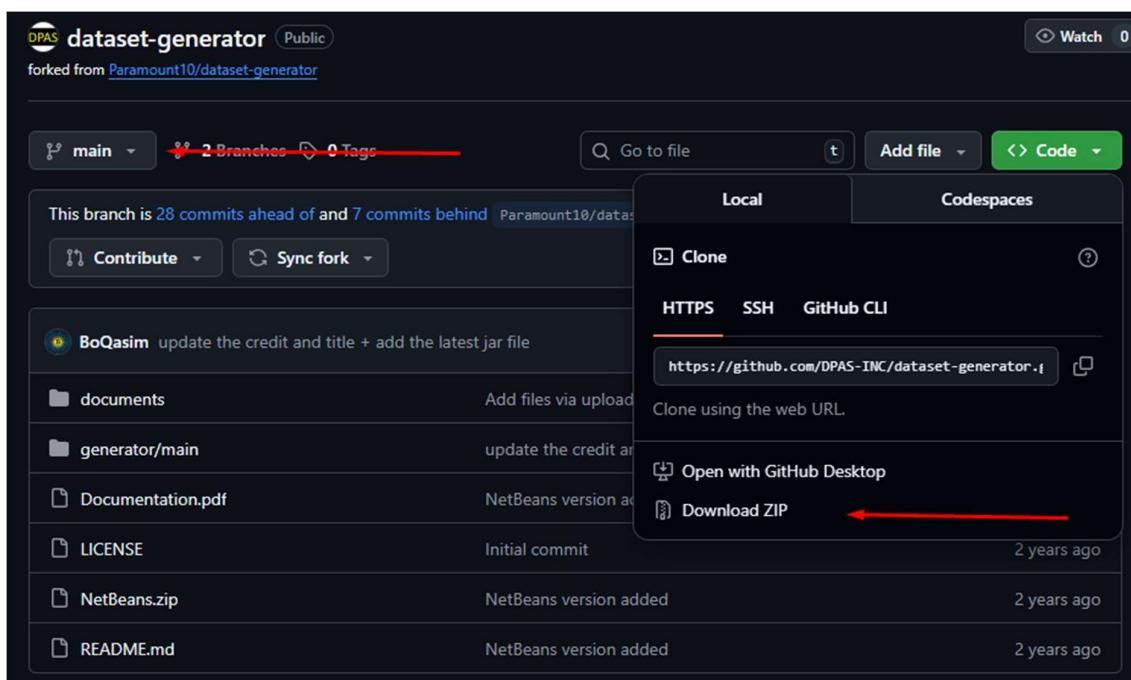
<https://www.oracle.com/java/technologies/javase/jdk17-archive-downloads.html>

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### Step 1: Download the Project from GitHub

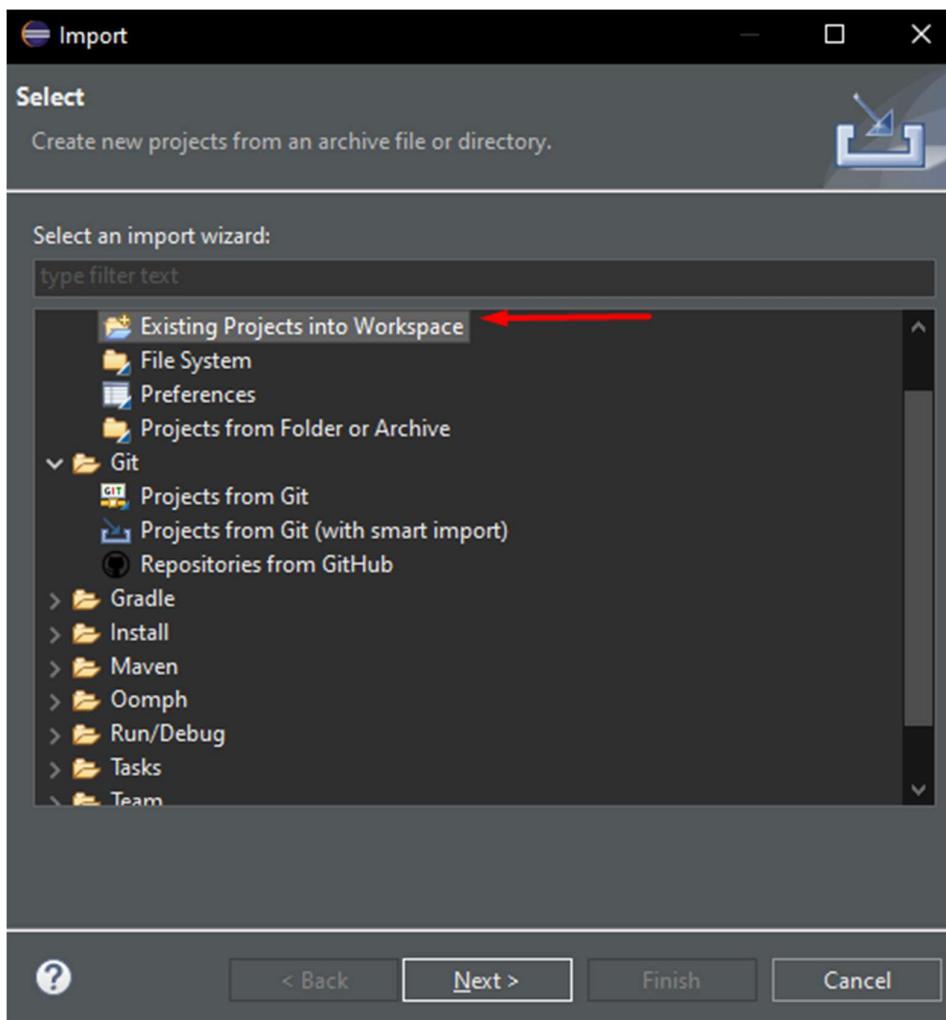
1. Visit the GitHub repository: <https://github.com/DPAS-INC/dataset-generator>  
Make sure you're on the main branch.
2. Click Code → Download ZIP.

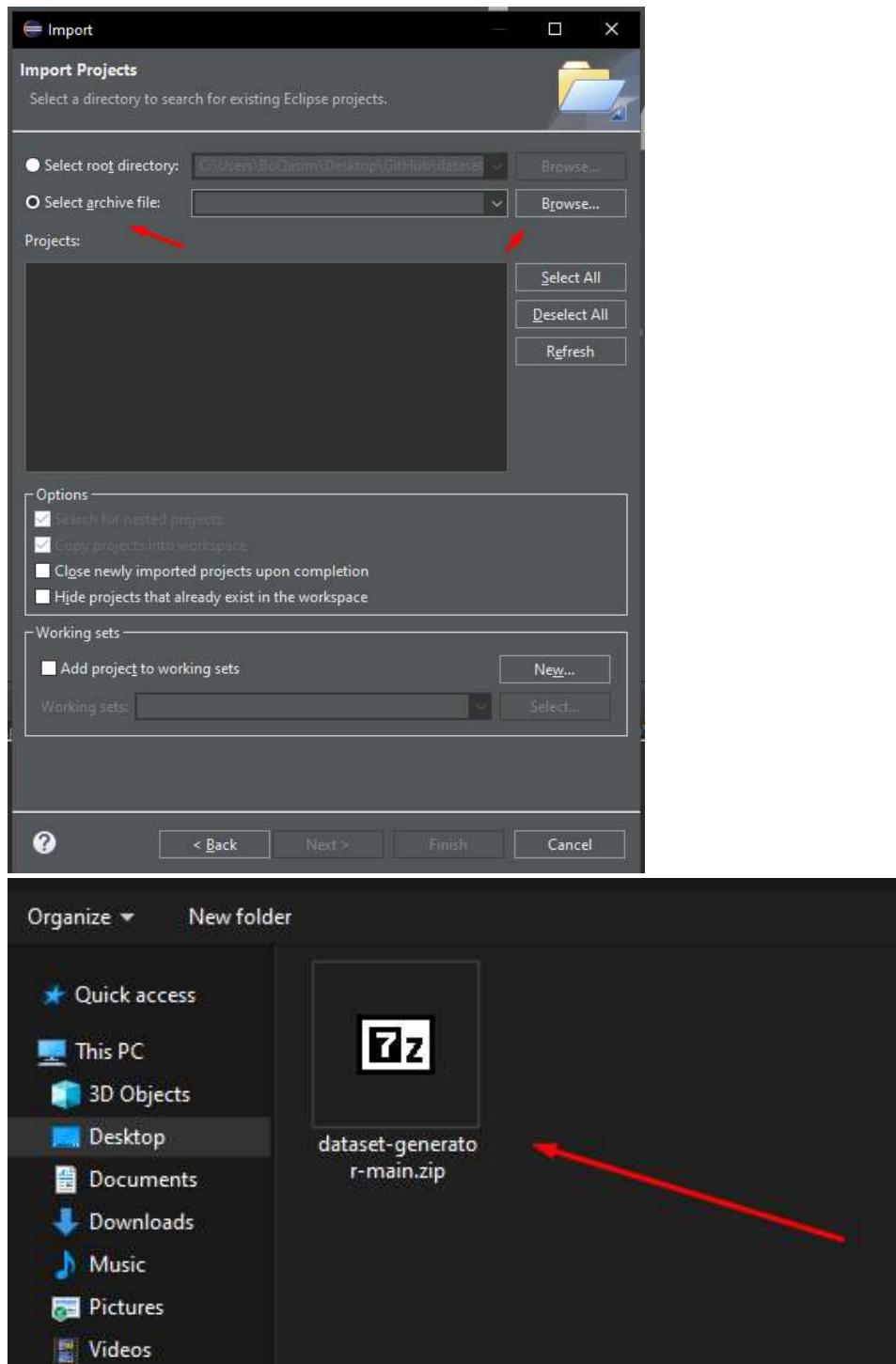
 Example screenshot:

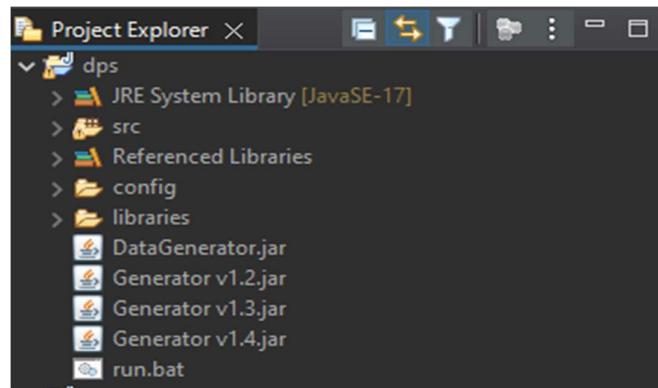
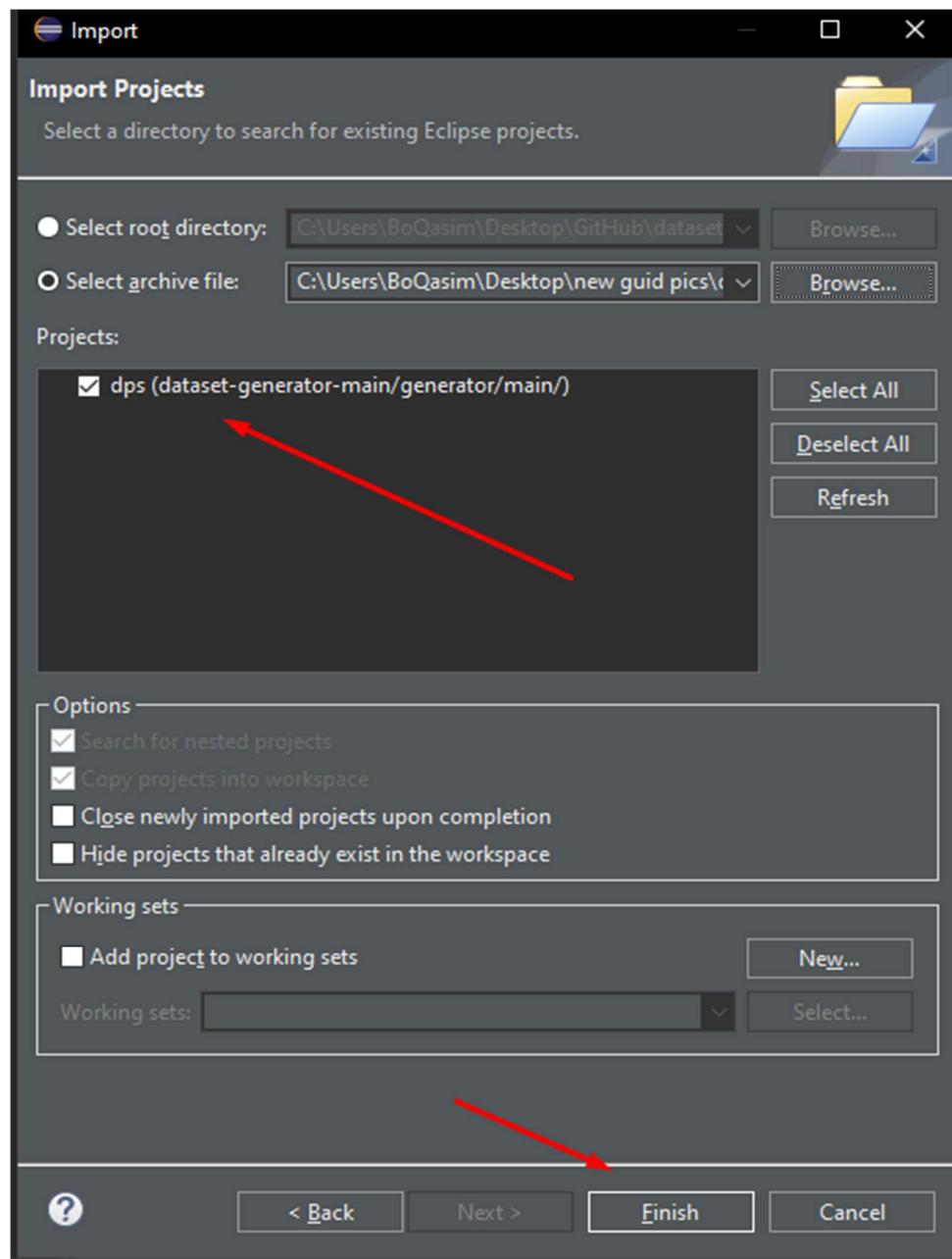


## Step 2: Import the Project

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:



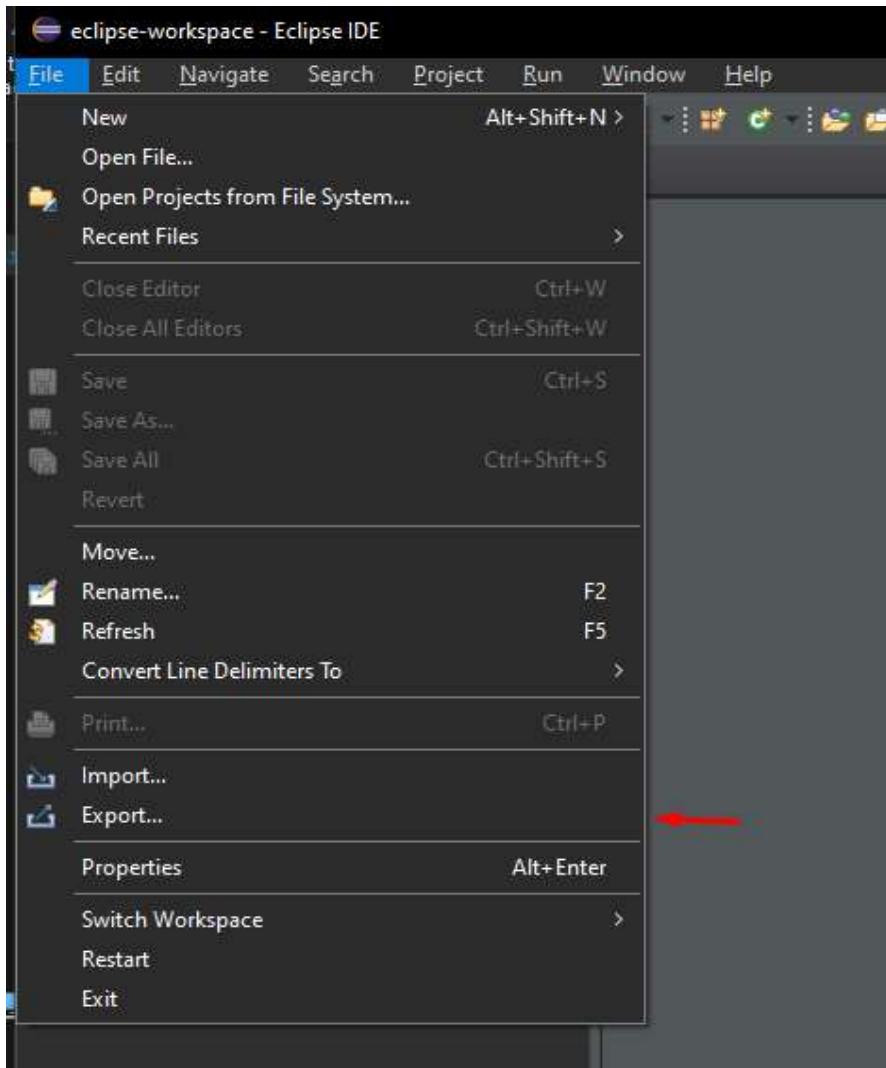


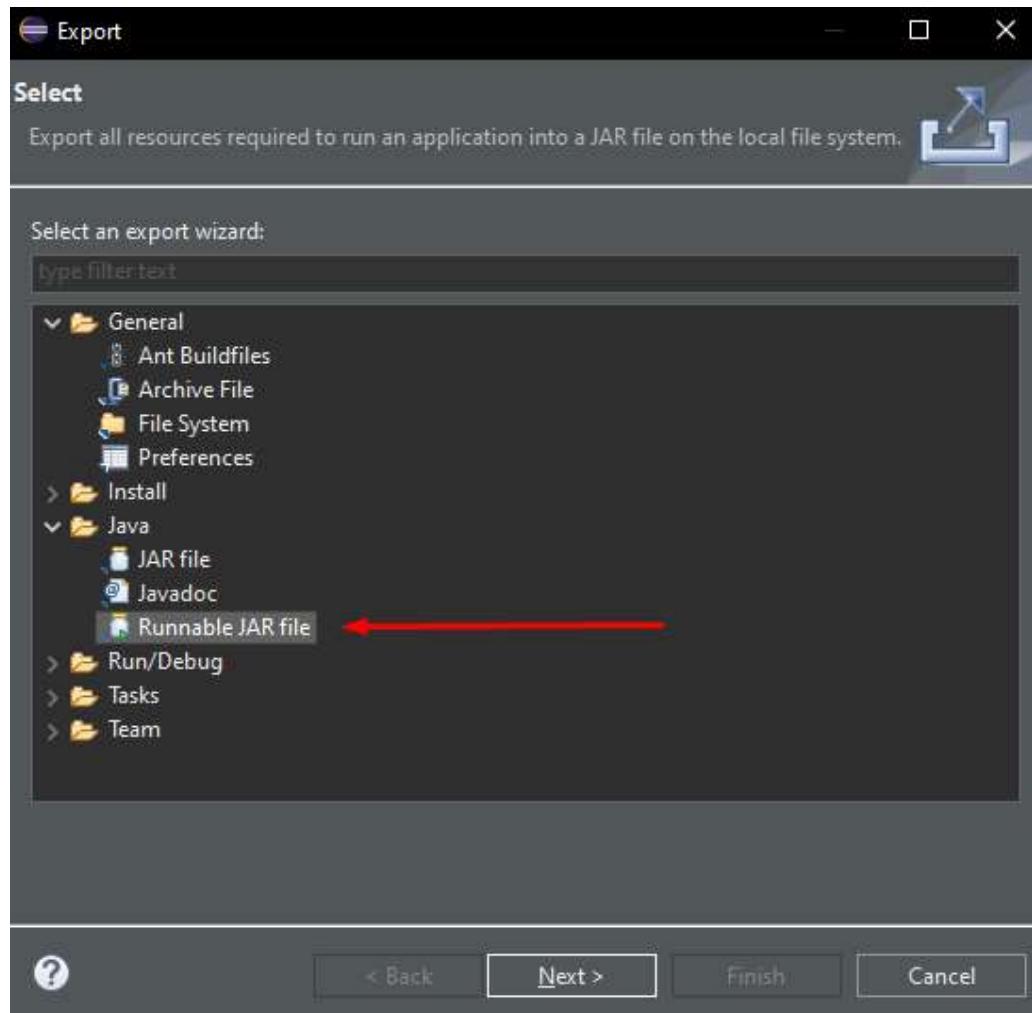


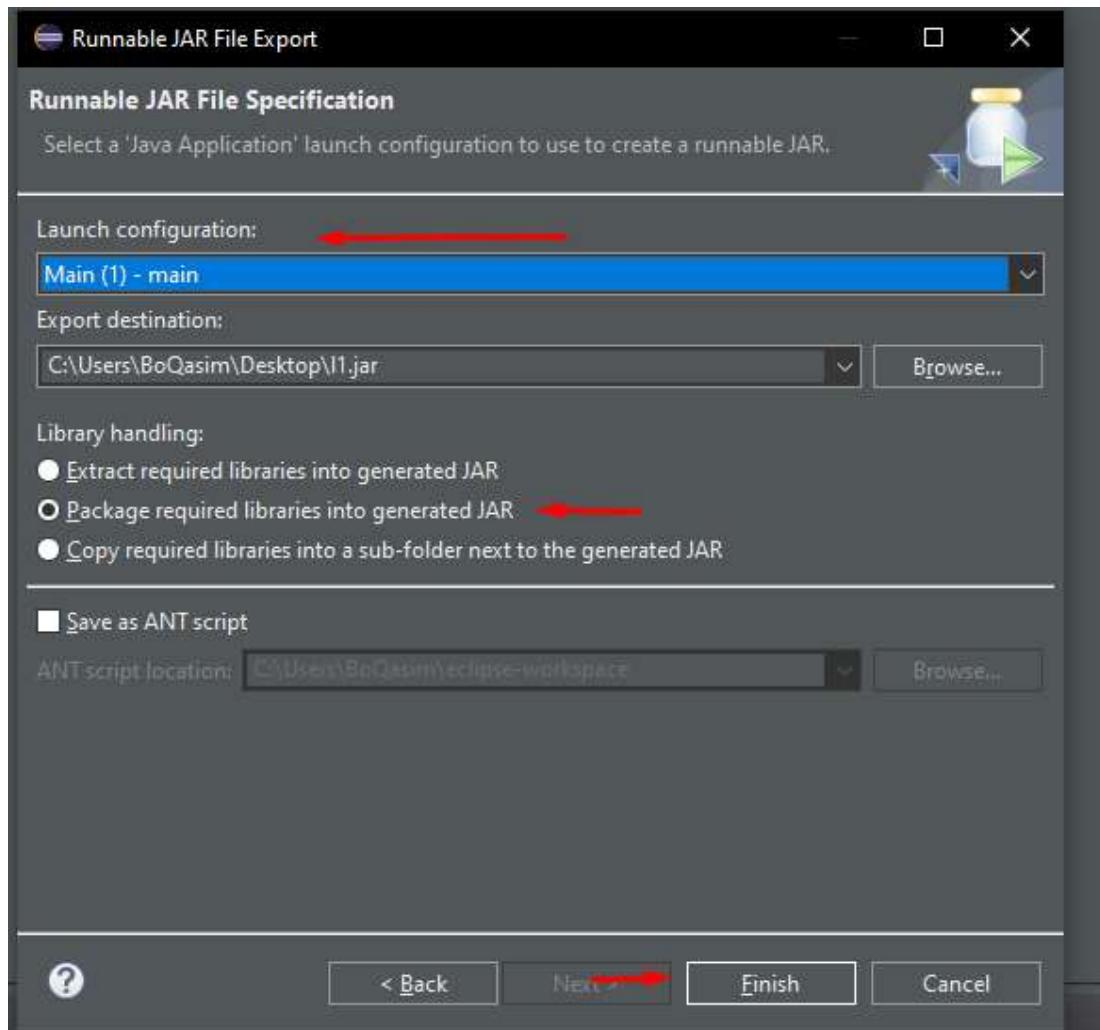
#### Step 4: Export the Project as a Runnable (Fat) JAR

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

##### 📸 Example screenshot:







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#### 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:**

