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**You said:**

**Java Decompiler - share an example to decompile java classfile using CLI**

**ChatGPT said:**

**To decompile a Java .class file using the command line, you can use JD-GUI or FernFlower, but one of the simplest methods is using CFR (Class File Reader) decompiler.**

**Steps to Decompile a .class File Using CFR:**

**1. Download CFR Decompiler**

**You can download CFR from CFR's official site.**

**2. Run CFR Using CLI**

**Open the terminal or command prompt and execute the following command:**

**sh**

**CopyEdit**

**java -jar cfr-<version>.jar YourClassFile.class**

**Example:**

**sh**

**CopyEdit**

**java -jar cfr-0.152.jar HelloWorld.class**

**This will print the decompiled Java source code of HelloWorld.class in the terminal.**

**3. Save the Decompiled Code to a File (Optional)**

**If you want to save the decompiled output to a file:**

**sh**

**CopyEdit**

**java -jar cfr-0.152.jar HelloWorld.class > HelloWorld.java**

**Alternative: Using FernFlower (from IntelliJ)**

**If you have IntelliJ, you can use FernFlower via command line:**

**sh**

**CopyEdit**

**java -jar fernflower.jar -d out/ HelloWorld.class**

**Would you like more details on any of these methods?**

**You said:**

**Does fernflower.jar is part of IntelliJ IDE**

**ChatGPT said:**

**Yes, FernFlower is included with IntelliJ IDEA, but it's not provided as a standalone JAR by default. It's the built-in Java decompiler used by IntelliJ. However, you can extract and use it separately.**

**How to Use FernFlower from IntelliJ:**

1. **Locate FernFlower JAR in IntelliJ**
   * **The FernFlower decompiler JAR is inside IntelliJ's lib folder.**
   * **Navigate to your IntelliJ installation directory and find:**

**mathematica**

**CopyEdit**

**<IntelliJ Install Directory>/lib/java-decompiler.jar**

* + **This java-decompiler.jar contains FernFlower.**

1. **Run FernFlower via CLI**
   * **You can use it in the command line as:**

**sh**

**CopyEdit**

**java -cp java-decompiler.jar org.jetbrains.java.decompiler.main.decompiler.ConsoleDecompiler input.class output\_dir/**

* + **Example:**

**sh**

**CopyEdit**

**java -cp java-decompiler.jar org.jetbrains.java.decompiler.main.decompiler.ConsoleDecompiler HelloWorld.class out/**

* + **This will place the decompiled Java source file inside the out/ directory.**

**Alternative: Downloading FernFlower Separately**

**If you want a standalone version, you can also download FernFlower from its GitHub repository:**

* **GitHub:**[**https://github.com/JetBrains/fernflower**](https://github.com/JetBrains/fernflower)

**Would you like a script to automate this process?**

**You said:**

**Yes please share an Automation Example to decompile the class file**

**ChatGPT said:**

**Here's a Bash script (Linux/macOS) and a Batch script (Windows) to automate the decompilation process using FernFlower from IntelliJ IDEA.**

**Linux/macOS (Bash Script)**

**Save this script as decompile.sh, give it execute permission, and run it.**

**sh**

**CopyEdit**

**#!/bin/bash # Check if java-decompiler.jar exists INTELLIJ\_DIR="/path/to/intellij/lib" # Change this path FERNFLOWER\_JAR="$INTELLIJ\_DIR/java-decompiler.jar" if [ ! -f "$FERNFLOWER\_JAR" ]; then echo "FernFlower JAR not found at $FERNFLOWER\_JAR" exit 1 fi # Create output directory OUTPUT\_DIR="./decompiled" mkdir -p "$OUTPUT\_DIR" # Check if input class file is provided if [ -z "$1" ]; then echo "Usage: ./decompile.sh <YourClassFile.class>" exit 1 fi # Run FernFlower decompiler java -cp "$FERNFLOWER\_JAR" org.jetbrains.java.decompiler.main.decompiler.ConsoleDecompiler "$1" "$OUTPUT\_DIR/" echo "Decompiled file saved in: $OUTPUT\_DIR/"**

**How to Use**

1. **Modify INTELLIJ\_DIR to the correct path where IntelliJ is installed.**
2. **Give execute permission:**

**sh**

**CopyEdit**

**chmod +x decompile.sh**

1. **Run the script:**

**sh**

**CopyEdit**

**./decompile.sh HelloWorld.class**

**Windows (Batch Script)**

**Save this script as decompile.bat and run it in the command prompt.**

**batch**

**CopyEdit**

**@echo off setlocal :: Set the path to IntelliJ's lib directory set INTELLIJ\_DIR=C:\Path\To\IntelliJ\lib set FERNFLOWER\_JAR=%INTELLIJ\_DIR%\java-decompiler.jar :: Check if the JAR file exists if not exist "%FERNFLOWER\_JAR%" ( echo FernFlower JAR not found at %FERNFLOWER\_JAR% exit /b 1 ) :: Create output directory set OUTPUT\_DIR=decompiled if not exist "%OUTPUT\_DIR%" mkdir "%OUTPUT\_DIR%" :: Check if class file argument is provided if "%~1"=="" ( echo Usage: decompile.bat YourClassFile.class exit /b 1 ) :: Run the decompiler java -cp "%FERNFLOWER\_JAR%" org.jetbrains.java.decompiler.main.decompiler.ConsoleDecompiler "%~1" "%OUTPUT\_DIR%" echo Decompiled file saved in: %OUTPUT\_DIR%**

**How to Use**

1. **Modify INTELLIJ\_DIR to your IntelliJ installation path.**
2. **Run the script in Command Prompt:**

**cmd**

**CopyEdit**

**decompile.bat HelloWorld.class**

**What This Script Does**

* **Automatically finds FernFlower inside IntelliJ's lib folder.**
* **Creates an output folder (decompiled/) if it doesn’t exist.**
* **Decompiles the provided .class file and stores the result in decompiled/.**

**Would you like enhancements, such as batch decompilation of multiple .class files? 🚀**

**You said:**

**consider hving jd-gui.exe , is there option to use CLI to decompile the class file with jd-gui.exe**

**ChatGPT said:**

**JD-GUI itself does not provide a CLI option to decompile .class files. It is mainly a graphical tool. However, JD-Core, the decompiler engine behind JD-GUI, has a command-line tool called JD-CLI that can be used for CLI-based decompilation.**

**Using JD-CLI for Command-Line Decompilation**

**Step 1: Download JD-CLI**

* **You can download JD-CLI from the official repository:**
  + [**JD-CLI GitHub Releases**](https://github.com/java-decompiler/jd-cli/releases)

**Step 2: Run JD-CLI**

**Once downloaded, you can use it as follows:**

**sh**

**CopyEdit**

**java -jar jd-cli.jar -od output\_dir YourClassFile.class**

* **-od output\_dir → Specifies the output directory.**
* **YourClassFile.class → The class file you want to decompile.**

**Example**

**sh**

**CopyEdit**

**java -jar jd-cli.jar -od ./decompiled HelloWorld.class**

**This will place the decompiled HelloWorld.java inside the ./decompiled directory.**

**Alternative: Using JD-GUI in GUI Mode via CLI**

**If you only have jd-gui.exe, you cannot decompile directly via CLI, but you can open a .class file from the command line:**

**Windows CMD Example**

**cmd**

**CopyEdit**

**jd-gui.exe HelloWorld.class**

**This will open HelloWorld.class inside the JD-GUI interface.**

**Automating JD-CLI Decompilation**

**If you want an automated script to decompile multiple .class files using JD-CLI, you can use the following:**

**Linux/macOS (Bash Script)**

**sh**

**CopyEdit**

**#!/bin/bash JDCLI\_JAR="/path/to/jd-cli.jar" # Update this path OUTPUT\_DIR="./decompiled" mkdir -p "$OUTPUT\_DIR" if [ -z "$1" ]; then echo "Usage: ./decompile.sh YourClassFile.class" exit 1 fi java -jar "$JDCLI\_JAR" -od "$OUTPUT\_DIR" "$1" echo "Decompiled file saved in: $OUTPUT\_DIR/"**

**Run it as:**

**sh**

**CopyEdit**

**./decompile.sh HelloWorld.class**

**Windows Batch Script**

**batch**

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**@echo off setlocal set JDCLI\_JAR="C:\path\to\jd-cli.jar" REM Update this path set OUTPUT\_DIR=decompiled if not exist "%OUTPUT\_DIR%" mkdir "%OUTPUT\_DIR%" if "%~1"=="" ( echo Usage: decompile.bat YourClassFile.class exit /b 1 ) java -jar %JDCLI\_JAR% -od "%OUTPUT\_DIR%" "%~1" echo Decompiled file saved in: %OUTPUT\_DIR%**

**Run it as:**

**cmd**

**CopyEdit**

**decompile.bat HelloWorld.class**

**Conclusion**

**✅ JD-GUI itself has no CLI decompilation option.  
✅ JD-CLI can be used as a command-line decompiler.  
✅ You can automate the process with JD-CLI scripts.**

**Would you like a script that processes an entire .jar file instead? 🚀**

**You said:**

**Where to get jd-cli.jar file**

**ChatGPT said:**

**[[Favicon](https://github.com/jd-wrapper/jd-cli)](https://github.com/jd-wrapper/jd-cli" \t "_blank)**

**[jd-wrapper/jd-cli: JD-CLI, a standalone command line Java ...](https://github.com/jd-wrapper/jd-cli" \t "_blank)**

**[github.com](https://github.com/jd-wrapper/jd-cli" \t "_blank)**

**To obtain the jd-cli.jar file, you can download it from the official JD-CLI GitHub repository. JD-CLI is a command-line utility that decompiles Java .class files into readable .java source code.**

**Steps to Download and Use JD-CLI:**

1. **Download the Latest Release:**
   * **Visit the**[**JD-CLI Releases page on GitHub**](https://github.com/jd-wrapper/jd-cli/releases)**.**
   * **Locate the latest release and download the jd-cli-x.y.z.jar file (replace x.y.z with the version number).**
2. **Run JD-CLI:**
   * **Open your terminal or command prompt.**
   * **Navigate to the directory where you downloaded jd-cli-x.y.z.jar.**
   * **Use the following command to decompile a .class file:**

**sh**

**CopyEdit**

**java -jar jd-cli-x.y.z.jar -od output\_directory YourClassFile.class**

* + - **-od output\_directory specifies the directory where the decompiled .java files will be saved.**
    - **YourClassFile.class is the path to the .class file you wish to decompile.**

**Example:**

**If you have a HelloWorld.class file and want to decompile it:**

**sh**

**CopyEdit**

**java -jar jd-cli-1.2.1.jar -od ./decompiled HelloWorld.class**

**This command will decompile HelloWorld.class and save the resulting HelloWorld.java file in the ./decompiled directory.**

**Note: Ensure you have Java Runtime Environment (JRE) version 8 or newer installed on your system to run JD-CLI.**

**For more detailed information and updates, refer to the**[**JD-CLI GitHub repository**](https://github.com/jd-wrapper/jd-cli)**.**

**Sources**

**You said:**

**Does jd-cli-1.0.0-min.jar works for Java decompilation using CLI**

**ChatGPT said:**

**Yes, jd-cli-1.0.0-min.jar can be used for Java decompilation via CLI, but it may have limited features compared to later versions.**

**How to Use jd-cli-1.0.0-min.jar for Decompilation**

**Once you have the jd-cli-1.0.0-min.jar file, you can decompile .class files using the following command:**

**sh**

**CopyEdit**

**java -jar jd-cli-1.0.0-min.jar -od output\_directory YourClassFile.class**

**Example**

**sh**

**CopyEdit**

**java -jar jd-cli-1.0.0-min.jar -od ./decompiled HelloWorld.class**

**This will decompile HelloWorld.class and place the .java file inside the ./decompiled folder.**

**Checking JD-CLI Version (Optional)**

**To confirm the JD-CLI version, run:**

**sh**

**CopyEdit**

**java -jar jd-cli-1.0.0-min.jar --version**

**Limitations of jd-cli-1.0.0-min.jar**

* **Older version, might not support newer Java bytecode (Java 9+).**
* **May lack optimizations and fixes found in later releases.**
* **If issues arise, try using a newer JD-CLI version from**[**GitHub**](https://github.com/jd-wrapper/jd-cli/releases)**.**

**Would you like a script to automate multiple .class file decompilations? 🚀**

**You said:**

**LInk https://github.com/jd-wrapper/jd-cli/releases shows only 1.0.0 version jd-cli jar . suggect any other link there to get latest version**

**ChatGPT said:**

**[[Favicon](https://central.sonatype.com/artifact/com.github.kwart.jd/jd-cli)](https://central.sonatype.com/artifact/com.github.kwart.jd/jd-cli" \t "_blank)**

**[com.github.kwart.jd:jd-cli - Maven Central - Sonatype](https://central.sonatype.com/artifact/com.github.kwart.jd/jd-cli" \t "_blank)**

**[sonatype.com](https://central.sonatype.com/artifact/com.github.kwart.jd/jd-cli" \t "_blank)**

**I understand you're seeking the latest version of JD-CLI for command-line Java decompilation. The official GitHub repository currently lists version 1.0.0 as the latest release. However, alternative sources indicate that version 1.2.1 is available.**

**Alternative Download Sources:**

1. **Maven Central Repository:**
   * **Version 1.2.1 of JD-CLI is available on Maven Central.**
   * **Direct Download: You can download the jd-cli-1.2.1.jar file from**[**Maven Central**](https://repo1.maven.org/maven2/com/github/kwart/jd-cli/1.2.1/jd-cli-1.2.1.jar)**.**
2. **Jar-Download.com:**
   * **This site offers JD-CLI version 1.2.1 for download.**
   * **Direct Link:**[**JD-CLI 1.2.1 Download**](https://jar-download.com/artifacts/com.github.kwart.jd/jd-cli/1.2.1/source-code)

**Building from Source:**

**If you prefer to build JD-CLI from the latest source code:**

1. **Clone the Repository:**
   * **bash**

**CopyEdit**

**git clone https://github.com/jd-wrapper/jd-cli.git cd jd-cli**

1. **Build the Project:**
   * **Ensure you have Java Development Kit (JDK) 8 or newer and Gradle installed.**
   * **Run the build command:**
     + **bash**

**CopyEdit**

**./gradlew build**

* + **After the build completes, the jd-cli-x.y.z.jar file will be located in the build/libs/ directory.**

**Note: Building from source ensures you have the most recent version, including any updates not yet published in binary form.**

**Usage:**

**Once you have the jd-cli.jar file, you can decompile Java class files using the command line:**

**bash**

**CopyEdit**

**java -jar jd-cli.jar -od output\_directory YourClassFile.class**

* **-od output\_directory: Specifies the directory where the decompiled .java files will be saved.**
* **YourClassFile.class: The path to the .class file you wish to decompile.**

**Example:**

**bash**

**CopyEdit**

**java -jar jd-cli.jar -od ./decompiled HelloWorld.class**

**This command will decompile HelloWorld.class and save the resulting HelloWorld.java file in the ./decompiled directory.**

**For more detailed information and updates, refer to the**[**JD-CLI GitHub repository**](https://github.com/jd-wrapper/jd-cli)**.**

**Sources**

**You said:**

**Share an Automated Program to extract specic class files from a jar keeping folder structure and copy that structure to another folder**

**ChatGPT said:**

**Here's a Python script that extracts specific .class files from a .jar file while preserving the folder structure and copies them to a new destination folder.**

**Features of This Script**

**✅ Extracts only the specified .class files from the .jar.  
✅ Maintains the original folder structure of the class files.  
✅ Copies the extracted files into a new destination folder.**

**Python Script: Extract Specific Class Files from a JAR**

**Save the following script as extract\_classes.py and run it.**

**python**

**CopyEdit**

**import zipfile import os import shutil def extract\_specific\_classes(jar\_path, output\_dir, class\_names): """ Extracts specific .class files from a JAR while preserving the folder structure. :param jar\_path: Path to the JAR file. :param output\_dir: Directory where extracted files will be stored. :param class\_names: List of class files to extract (e.g., ["com/example/MyClass.class"]) """ if not os.path.exists(jar\_path): print(f"Error: JAR file '{jar\_path}' not found!") return if not os.path.exists(output\_dir): os.makedirs(output\_dir) with zipfile.ZipFile(jar\_path, 'r') as jar: for class\_file in class\_names: if class\_file in jar.namelist(): dest\_file\_path = os.path.join(output\_dir, class\_file) os.makedirs(os.path.dirname(dest\_file\_path), exist\_ok=True) # Extract and copy to the new folder with jar.open(class\_file) as source, open(dest\_file\_path, 'wb') as target: shutil.copyfileobj(source, target) print(f"Extracted: {class\_file} -> {dest\_file\_path}") else: print(f"Warning: {class\_file} not found in the JAR!") # Example Usage if \_\_name\_\_ == "\_\_main\_\_": jar\_file = "example.jar" # Path to your JAR file output\_folder = "extracted\_classes" # Destination folder classes\_to\_extract = [ "com/example/MyClass.class", "org/example/Helper.class" ] extract\_specific\_classes(jar\_file, output\_folder, classes\_to\_extract)**

**How to Use**

1. **Modify the script:**
   * **Change jar\_file = "example.jar" to your JAR file path.**
   * **Set output\_folder = "extracted\_classes" to your desired extraction directory.**
   * **Update classes\_to\_extract = [...] with the full paths of the .class files you want to extract.**
2. **Run the script in Terminal or Command Prompt:**

**sh**

**CopyEdit**

**python extract\_classes.py**

**Example Scenario**

**Given JAR File (example.jar):**

**arduino**

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**com/example/Main.class**

**com/example/utils/Helper.class**

**org/example/Service.class**

**Extracting Specific Classes:**

**python**

**CopyEdit**

**classes\_to\_extract = [ "com/example/Main.class", "org/example/Service.class" ]**

**Output Folder (extracted\_classes/):**

**arduino**

**CopyEdit**

**extracted\_classes/com/example/Main.class**

**extracted\_classes/org/example/Service.class**

**Alternative: Bash Script for Linux/macOS**

**If you prefer a shell script, use this:**

**sh**

**CopyEdit**

**#!/bin/bash JAR\_FILE="example.jar" OUTPUT\_DIR="extracted\_classes" CLASSES\_TO\_EXTRACT=("com/example/Main.class" "org/example/Service.class") mkdir -p "$OUTPUT\_DIR" for CLASS in "${CLASSES\_TO\_EXTRACT[@]}"; do unzip -j "$JAR\_FILE" "$CLASS" -d "$OUTPUT\_DIR/$(dirname $CLASS)" done echo "Extraction complete!"**

**Run it as:**

**sh**

**CopyEdit**

**chmod +x extract\_classes.sh ./extract\_classes.sh**

**Conclusion**

**✅ This script efficiently extracts selected .class files while preserving their structure.  
✅ Works on Windows, macOS, and Linux.  
✅ Python version is cross-platform; Bash script is a lightweight alternative for Linux/macOS.**

**Would you like an enhancement, such as wildcard support (\*.class)? 🚀**

**You said:**

**How to handle jar having inner class while decompiling**

**ChatGPT said:**

**Handling Inner Classes While Decompiling a JAR**

**Inner classes in Java are compiled into separate .class files with a $ in their name. For example:**

**Example:**

**If you have the following Java class:**

**java**

**CopyEdit**

**public class Outer { class Inner { void sayHello() { System.out.println("Hello from Inner class!"); } } }**

**The compiler generates:**

**pgsql**

**CopyEdit**

**Outer.class**

**Outer$Inner.class**

**How to Properly Decompile a JAR with Inner Classes**

**Since inner classes are stored as separate .class files, you must ensure the decompiler also extracts and processes them.**

**Method 1: Using JD-CLI (Command-Line Decompiler)**

**JD-CLI decompiles inner classes automatically if all .class files are present.**

**Command to Decompile an Entire JAR**

**sh**

**CopyEdit**

**java -jar jd-cli.jar -od decompiled\_output myjar.jar**

**This will: ✅ Extract all classes, including inner classes  
✅ Save .java files in decompiled\_output/  
✅ Preserve folder structure**

**Decompile Only Specific Classes (Including Inner Classes)**

**sh**

**CopyEdit**

**java -jar jd-cli.jar -od decompiled\_output com/example/MyClass.class com/example/MyClass$Inner.class**

**✅ Ensures inner classes are included in the decompilation output.**

**Method 2: Using CFR (Another Java Decompiler)**

**CFR is another great Java decompiler that handles inner classes well.**

**Download CFR:**

[**CFR Decompiler GitHub**](https://github.com/leibnitz27/cfr/releases)

**Decompile JAR Including Inner Classes**

**sh**

**CopyEdit**

**java -jar cfr.jar myjar.jar --outputdir decompiled\_output**

**✅ CFR ensures inner class relationships are retained in the .java files.**

**Decompile a Single Class (Including Inner Classes)**

**sh**

**CopyEdit**

**java -jar cfr.jar myjar.jar --outputdir decompiled\_output --filter "com/example/MyClass"**

**✅ This will extract MyClass.java along with MyClass$Inner.java**

**Method 3: Using FernFlower (IntelliJ's Built-in Decompiler)**

**If using FernFlower (fernflower.jar), ensure you extract both the main class and its inner classes.**

**Decompiling JAR**

**sh**

**CopyEdit**

**java -jar fernflower.jar -dgs=1 -hes=0 -hdc=0 myjar.jar decompiled\_output/**

**This will:  
✅ Extract all classes  
✅ Handle inner class relationships properly**

**Handling Inner Classes in a Script**

**If you want to automate decompilation while ensuring inner classes are included, here’s a Python script:**

**Automated Decompiler Script**

**python**

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**import os import subprocess def decompile\_jar(jar\_path, output\_dir, decompiler\_jar): """ Decompiles a JAR including inner classes using JD-CLI or CFR. :param jar\_path: Path to the JAR file :param output\_dir: Directory where decompiled files will be saved :param decompiler\_jar: Path to JD-CLI or CFR decompiler """ if not os.path.exists(output\_dir): os.makedirs(output\_dir) print(f"Decompiling {jar\_path} to {output\_dir}...") # Run the decompiler cmd = ["java", "-jar", decompiler\_jar, "-od", output\_dir, jar\_path] subprocess.run(cmd, check=True) print(f"Decompilation complete. Check {output\_dir} for results.") # Example Usage decompiler\_jar = "jd-cli.jar" # Change to "cfr.jar" if using CFR jar\_file = "myjar.jar" output\_folder = "decompiled\_output" decompile\_jar(jar\_file, output\_folder, decompiler\_jar)**

**✅ This script ensures inner classes are properly handled.**

**Conclusion**

**✅ JD-CLI, CFR, and FernFlower handle inner classes well if used correctly.  
✅ Extract all related .class files, including Outer$Inner.class.  
✅ Use scripts to automate extraction if dealing with multiple JARs.**

**Would you like an enhancement for batch processing multiple JARs? 🚀**

**You said:**

**Extedn the script to handle specific classes in which som eare inner class . is it possible to use wild card with partial calss name to decompile using jd-cli**

**ChatGPT said:**

**Extended Script to Handle Specific Classes, Including Inner Classes**

**This script allows you to decompile specific classes, including inner classes, while preserving their structure.  
It also supports wildcard-based matching to extract related inner classes automatically.**

**🚀 Features**

**✅ Handles inner classes (e.g., MyClass$Inner.class)  
✅ Supports partial name matching (e.g., MyClass\* to get all related classes)  
✅ Extracts only required classes while maintaining folder structure**

**🔹 Can JD-CLI Use Wildcards?**

**JD-CLI does not support direct wildcards (\*) in the command-line arguments.  
However, we can use Python to filter class files matching a partial name before passing them to JD-CLI.**

**📝 Python Script: Decompile Specific Classes (Including Inner Classes)**

**python**

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**import zipfile import os import subprocess import fnmatch def extract\_matching\_classes(jar\_path, output\_dir, class\_patterns, decompiler\_jar): """ Extracts specific class files (including inner classes) from a JAR and decompiles them. :param jar\_path: Path to the JAR file. :param output\_dir: Directory where decompiled files will be stored. :param class\_patterns: List of class name patterns (e.g., ["com/example/MyClass\*"]). :param decompiler\_jar: Path to JD-CLI or CFR decompiler. """ if not os.path.exists(jar\_path): print(f"Error: JAR file '{jar\_path}' not found!") return if not os.path.exists(output\_dir): os.makedirs(output\_dir) matching\_classes = [] # Open JAR and filter matching class files with zipfile.ZipFile(jar\_path, 'r') as jar: class\_files = jar.namelist() for pattern in class\_patterns: matched = fnmatch.filter(class\_files, pattern + ".class") # Match main class inner\_classes = fnmatch.filter(class\_files, pattern + "$\*.class") # Match inner classes matching\_classes.extend(matched + inner\_classes) if not matching\_classes: print("No matching class files found!") return print("Matching class files:", matching\_classes) # Run JD-CLI to decompile the matched classes cmd = ["java", "-jar", decompiler\_jar, "-od", output\_dir] + matching\_classes subprocess.run(cmd, check=True) print(f"Decompilation complete. Check '{output\_dir}' for results.") # Example Usage decompiler\_jar = "jd-cli.jar" # Change to "cfr.jar" if using CFR jar\_file = "example.jar" output\_folder = "decompiled\_output" # Class patterns to extract (supports partial names) classes\_to\_extract = [ "com/example/MyClass", # Matches MyClass.class "com/example/Another\*" # Matches AnotherClass.class and AnotherClass$Inner.class ] extract\_matching\_classes(jar\_file, output\_folder, classes\_to\_extract, decompiler\_jar)**

**🔹 How It Works**

1. **Extracts .class files from the JAR matching given patterns.**
2. **Identifies inner classes ($ symbol) automatically.**
3. **Passes the exact filenames to JD-CLI for decompilation.**
4. **Saves .java files in the decompiled\_output/ folder.**

**🔹 Example Scenario**

**JAR Contains:**

**bash**

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**com/example/Main.class**

**com/example/Main$Helper.class**

**com/example/utils/Utility.class**

**com/example/utils/Utility$Nested.class**

**org/example/Service.class**

**Pattern Given:**

**python**

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**classes\_to\_extract = ["com/example/Main\*", "com/example/utils/Utility"]**

**Extracted & Decompiled Files:**

**swift**

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**decompiled\_output/com/example/Main.java**

**decompiled\_output/com/example/Main$Helper.java**

**decompiled\_output/com/example/utils/Utility.java**

**decompiled\_output/com/example/utils/Utility$Nested.java**

**🔹 Running the Script**

1. **Modify the script:**
   * **Set jar\_file = "your.jar"**
   * **Set decompiler\_jar = "path-to-jd-cli.jar"**
   * **Define class patterns in classes\_to\_extract**
2. **Run the script:**

**sh**

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**python extract\_classes.py**

**🔥 Benefits**

**✅ Handles inner classes automatically  
✅ Supports wildcard matching (\*)  
✅ Works with JD-CLI, CFR, and FernFlower  
✅ Saves only necessary files, avoiding clutter**

**Would you like multi-threading for faster decompilation? 🚀**

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**ChatGPT can make mistakes. Check important info.**

**?**