

## SAMPLE PROJECT

### BÀI 8: ĐÓNG GÓI VÀ TRIỂN KHAI

- ⊙ Tạo được file exe từ jar
- ⊙ Đóng gói setup để cài đặt
- ⊙ Cài đặt và chạy ứng dụng



- 📖 Hướng dẫn cài đặt phần mềm hỗ trợ
- 📖 Hướng dẫn tạo file exe
- 📖 Hướng dẫn tạo file cài đặt
- 📖 Hướng dẫn cài đặt phần mềm

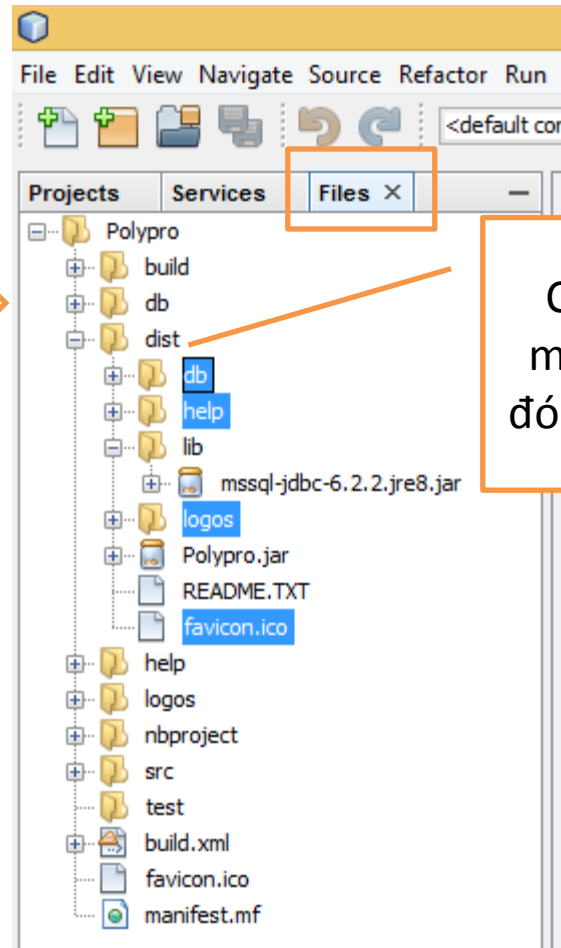
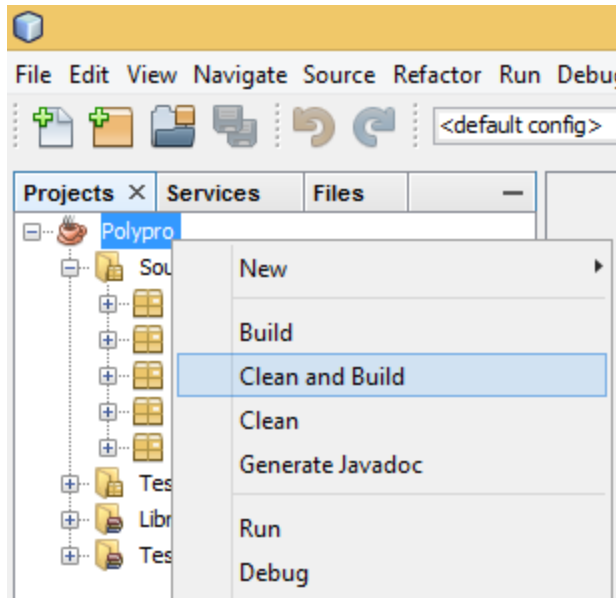


- ❑ Sản phẩm phần mềm trước khi chuyển giao cho khách hàng cần được đóng gói
- ❑ Đóng gói sản phẩm Jdesktop qua 2 giao đoạn
  - ❖ Tạo file exe có thể chạy
  - ❖ Đóng gói cài đặt
- ❑ Có rất nhiều phần mềm cho phép tạo exe từ jar của java, exe4j là một phần mềm trong số đó
- ❑ Có rất nhiều phần mềm cho phép đóng gói cài đặt, InnoSetup là một trong số đó

- ❑ Tải phần mềm tại Exe4J
  - ❖ [https://download-keycdn.ej-technologies.com/exe4j/exe4j\\_windows-x64\\_4\\_6.exe](https://download-keycdn.ej-technologies.com/exe4j/exe4j_windows-x64_4_6.exe)
- ❑ Tải phần mềm InnoSetup
  - ❖ <http://files.jrsoftware.org/is/5/innosetup-5.5.9.exe>
- ❑ Cài đặt Exe4J
  - Chạy exe4j\_windows-x64\_4\_6.exe
- ❑ Cài đặt Inno Setup
  - ❖ innosetup-5.5.9.exe

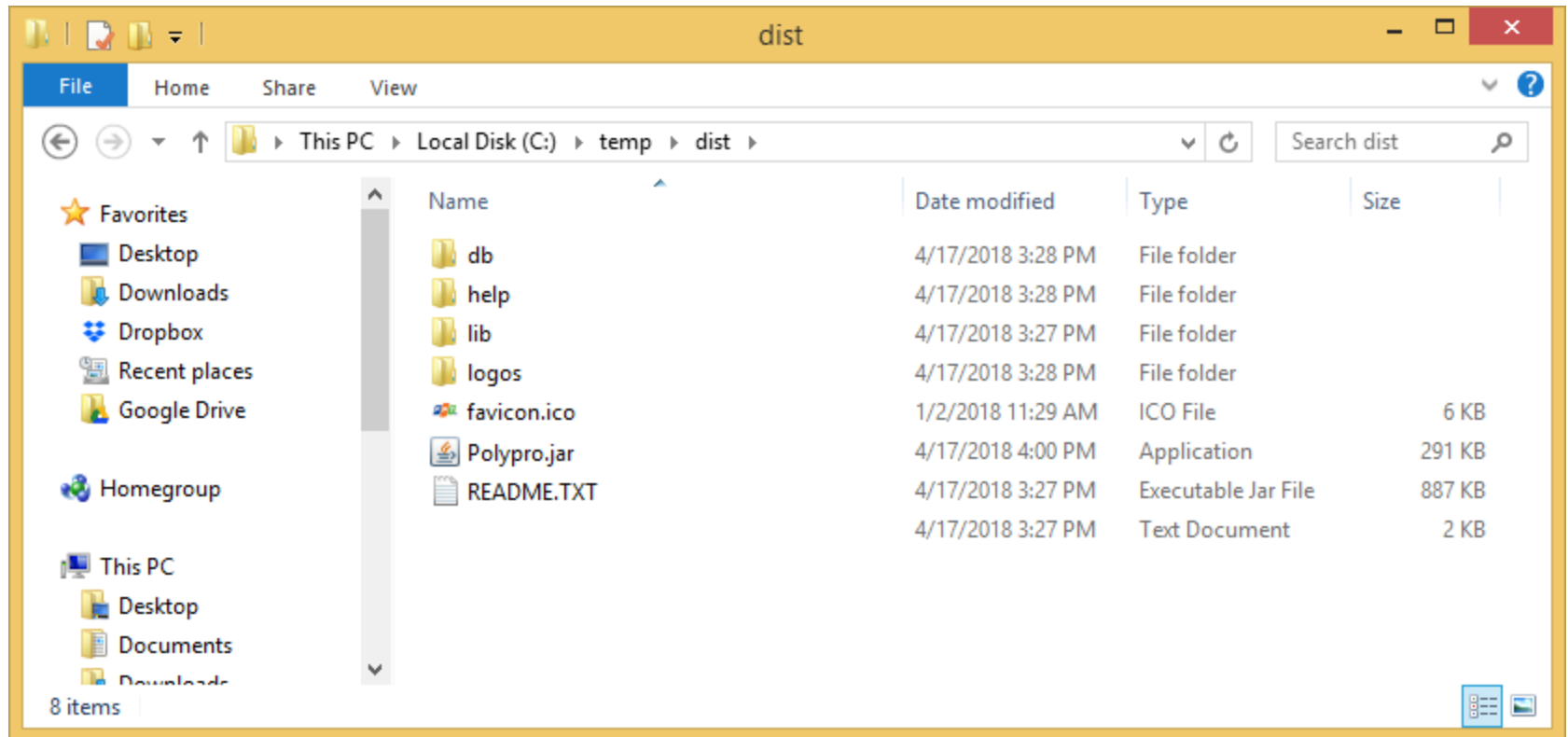
# Hướng dẫn tạo file exe với Exe4J

# CHUẨN BỊ TÀI NGUYÊN ĐÓNG GÓI

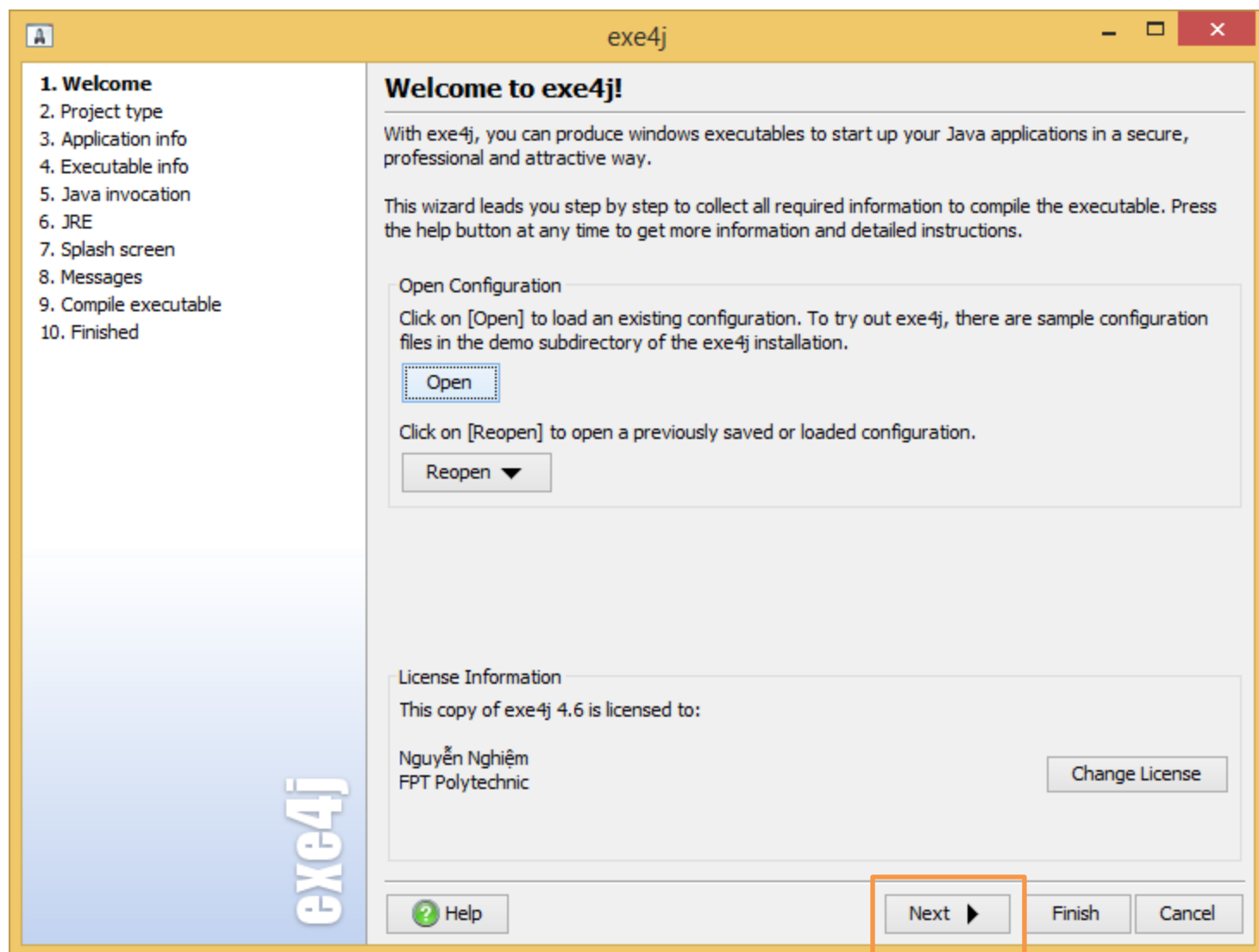


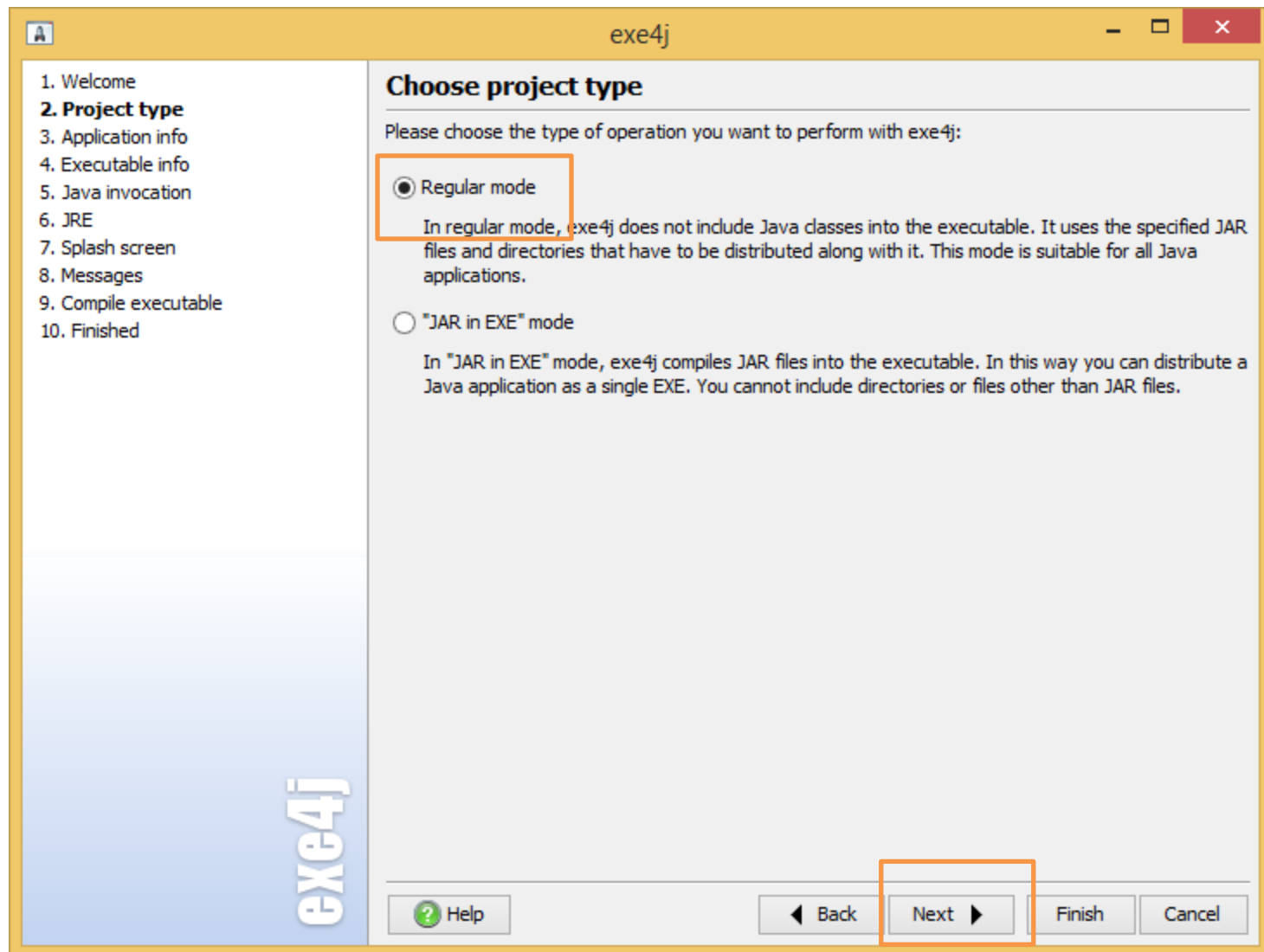
Chép các thư  
mục và file cần  
đóng gói vào dist

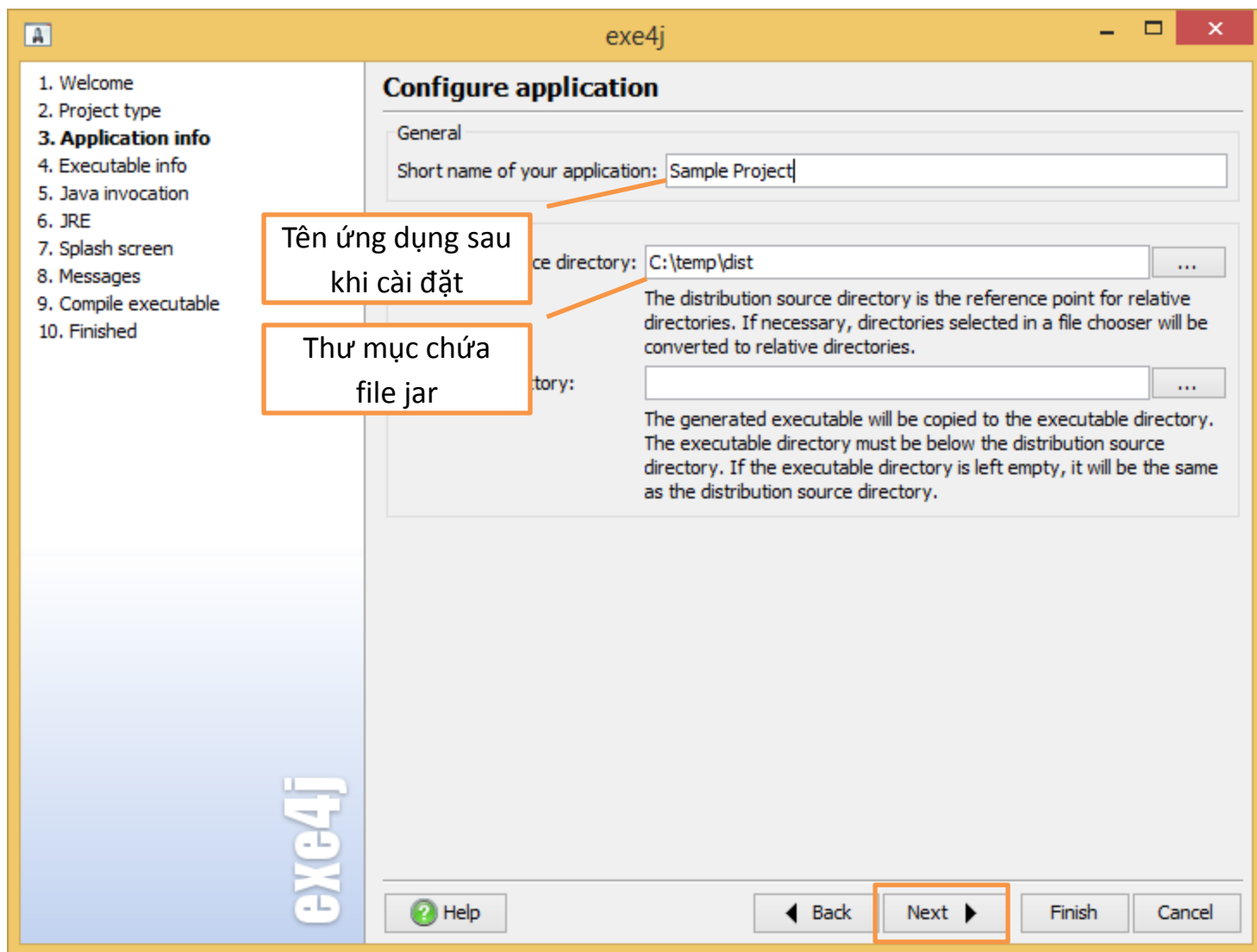
❑ Toàn bộ tài nguyên phần mềm cần đóng gói











# TÊN EXE, BIỂU TƯỢNG VÀ MÔI TRƯỜNG

**exe4j**

1. Welcome  
2. Project type  
3. Application info  
**4. Executable info**  
Advanced options:  
• Redirection  
• Service options  
• Version info  
• 32-bit or 64-bit  
• Execution level  
5. Java invocation  
6. JRE  
7. Splash screen  
8. Messages  
9. Compile executable  
10. Finished

**Configure executable**

Executable type: ☒ GUI application  
☐ Allow -console parameter  
☐ Console application  
☐ Service

Executable name: Polypro.exe

☒ Icon File: C:\temp\dist\favicon.ico

☐ Allow only a single running instance of the application  
☒ Fail if an exception in the main thread is thrown  
☒ Change working directory to: . (relative to executable)

▼ Advanced Options

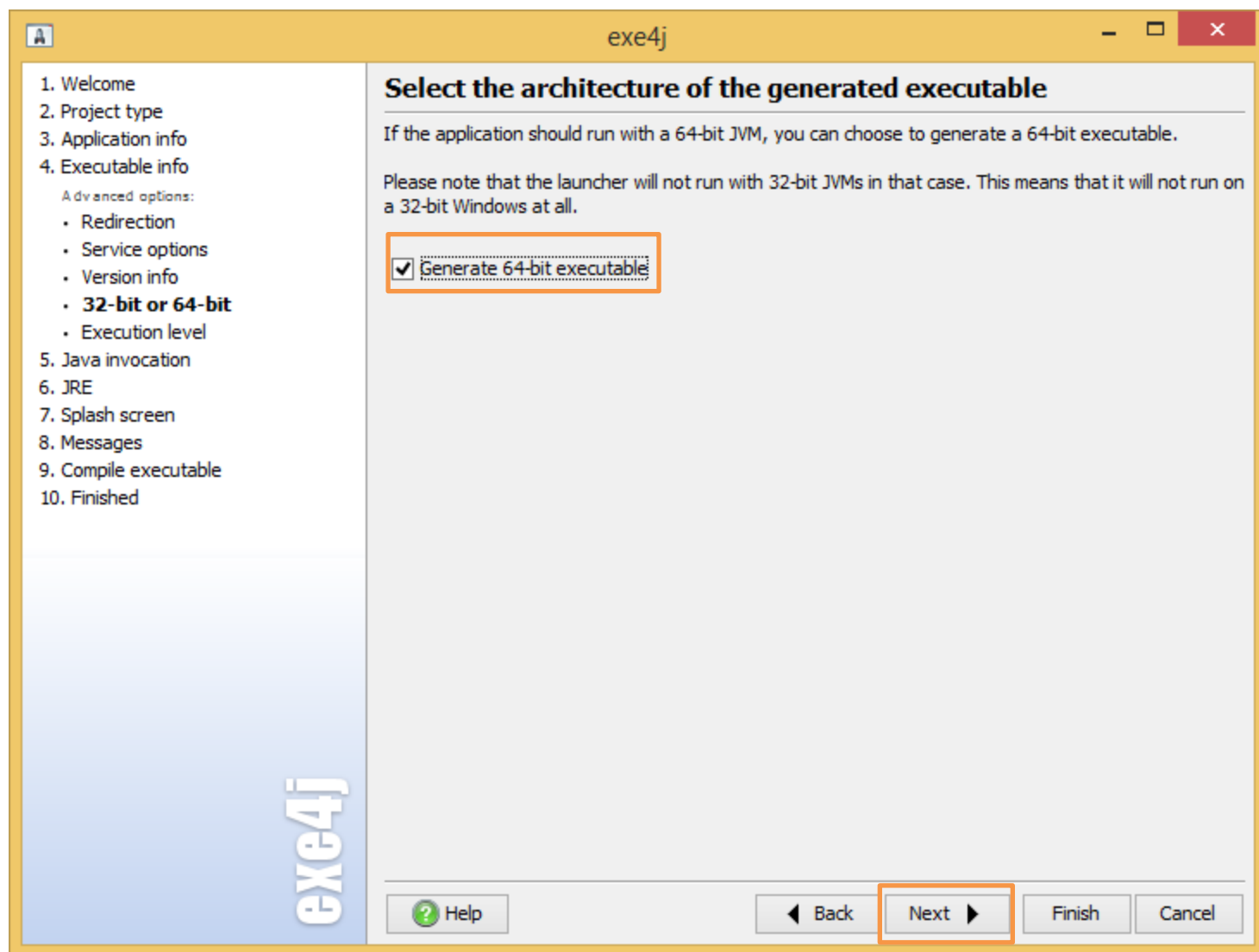
- Redirection
- Service options
- Version info
- 32-bit or 64-bit**
- Execution level

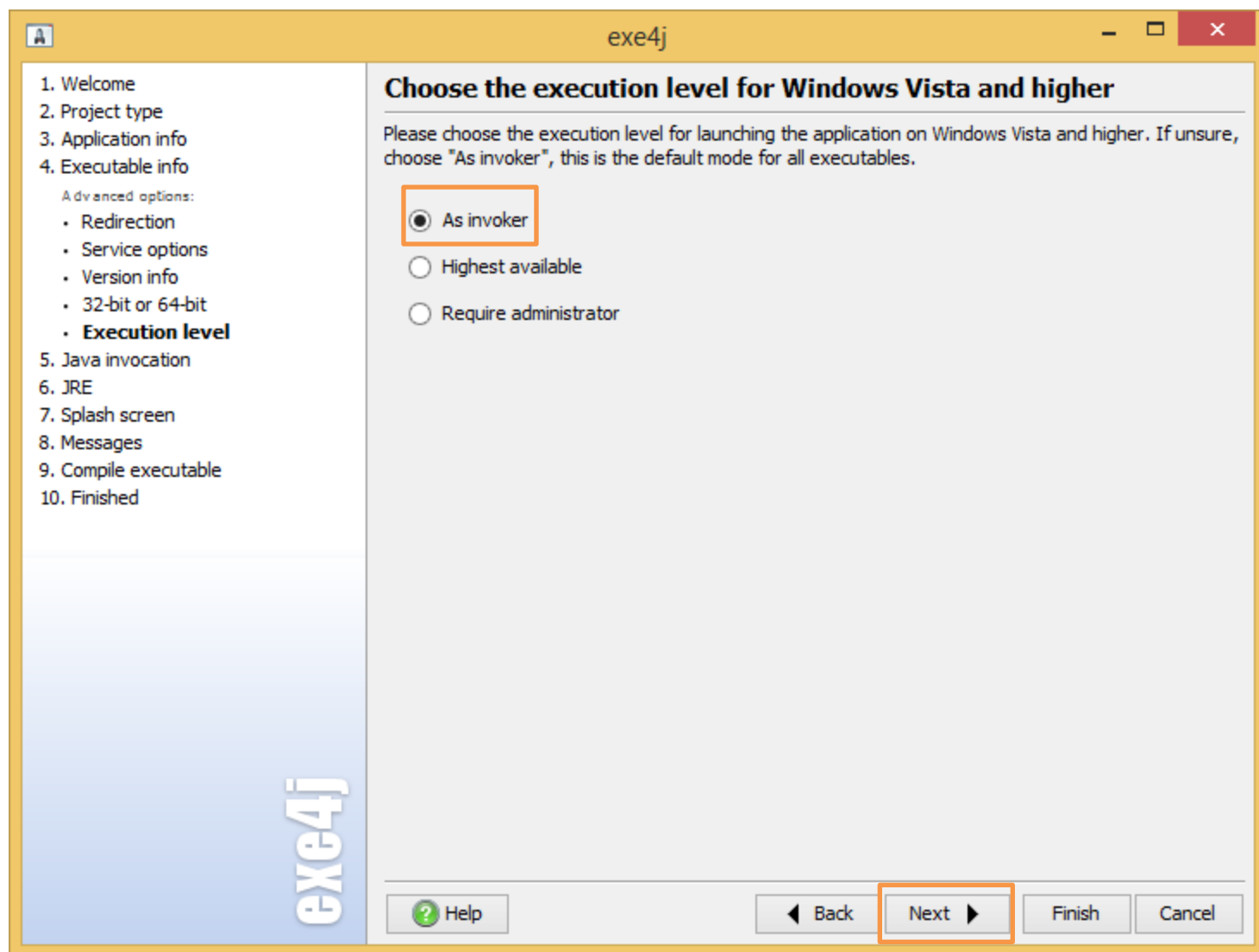
Help Back **Next** Finish Cancel

Tên file exe sau khi chuyển đổi

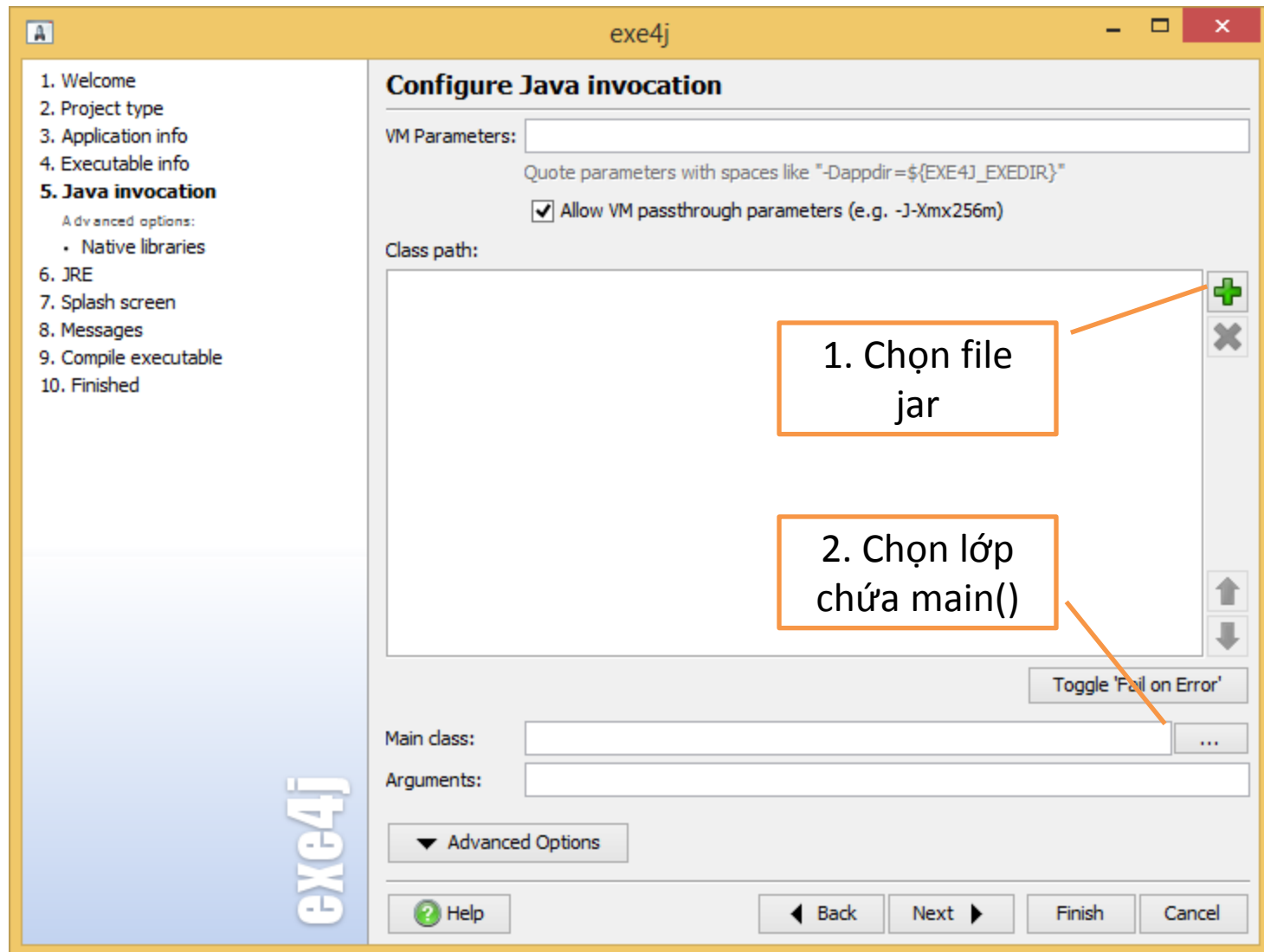
Biểu tượng của file exe

Môi trường chạy

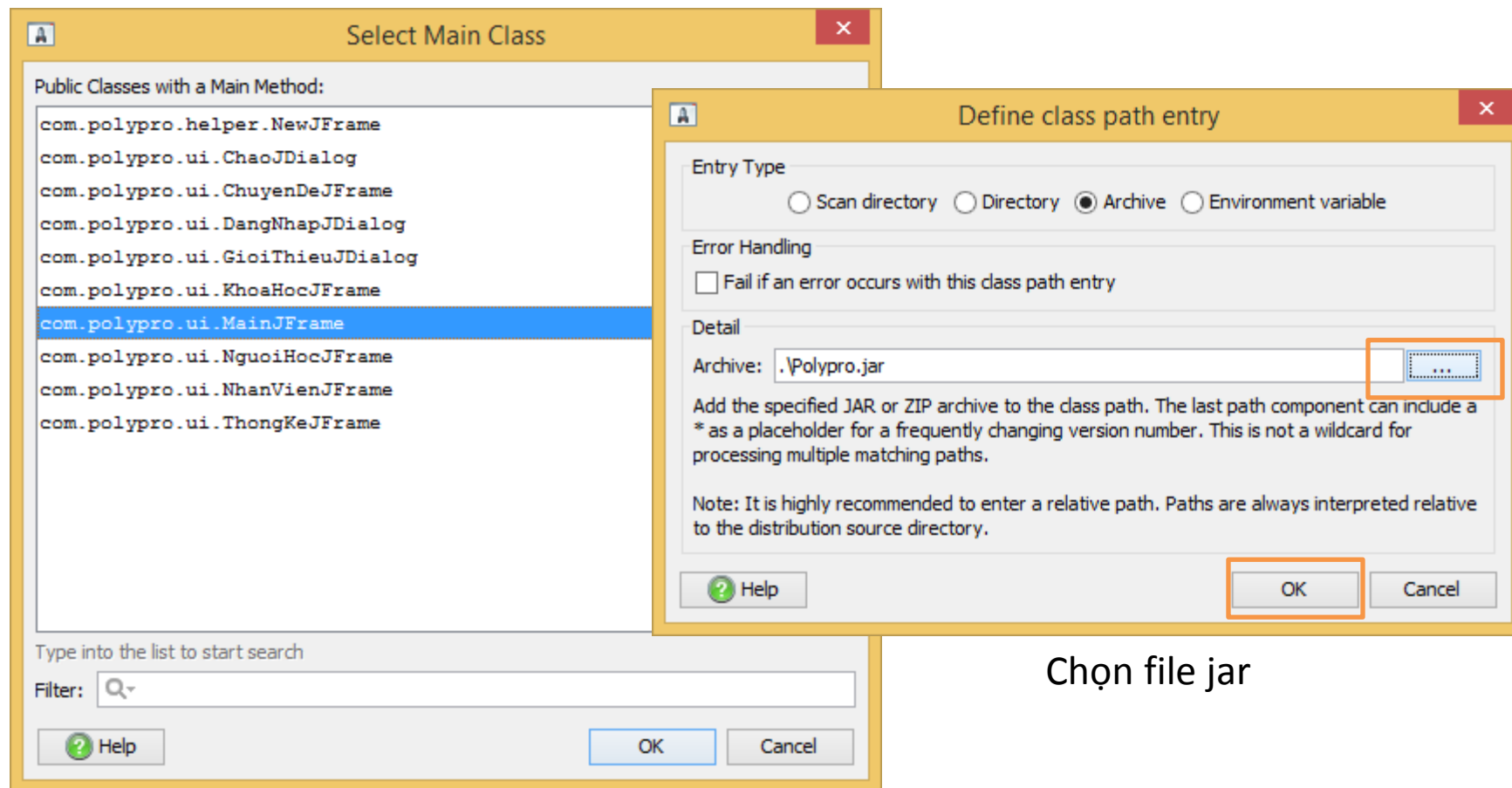




# CHỌN FILE JAR VÀ LỚP CHỨA MAIN()



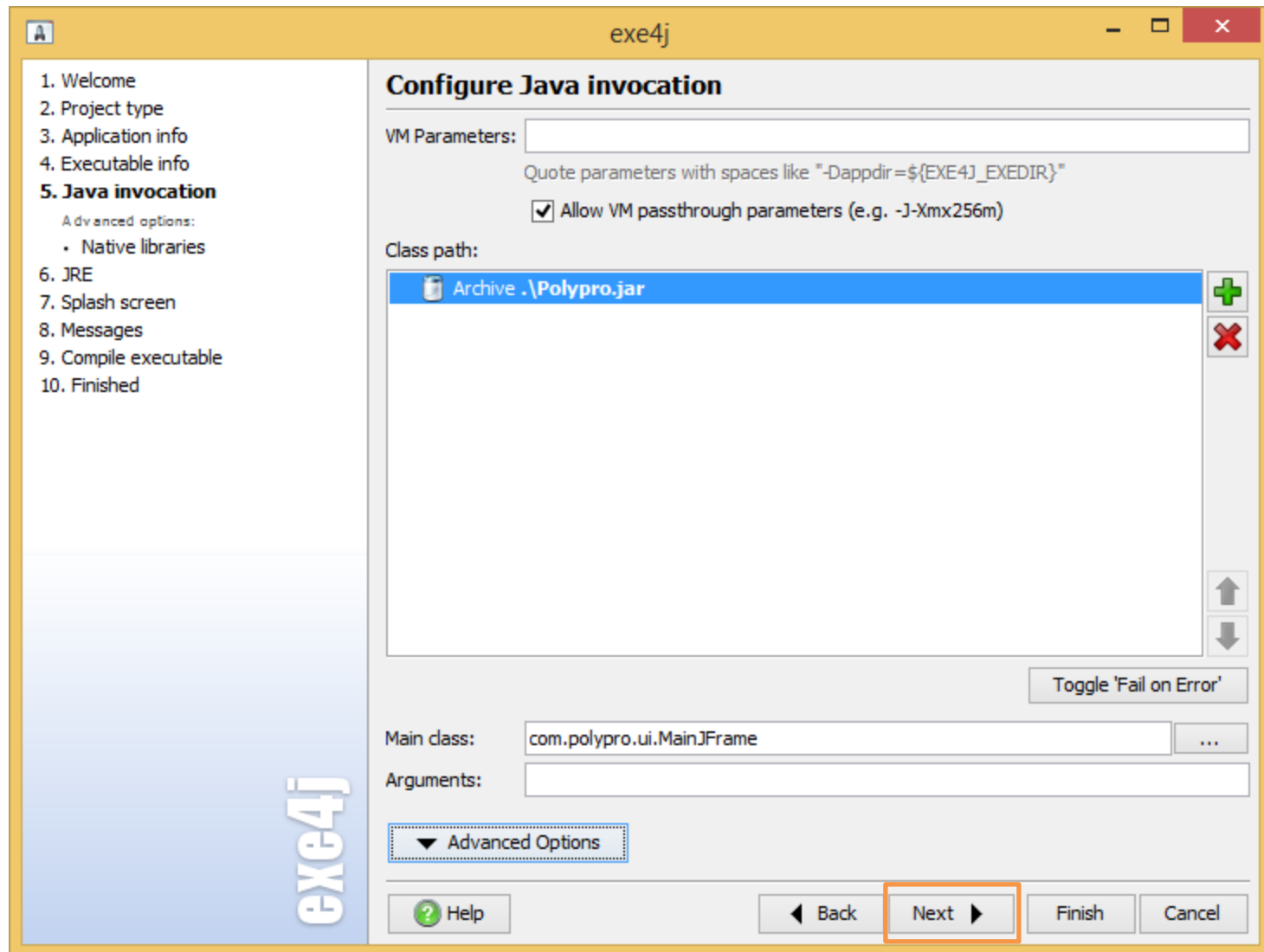
# CHỌN FILE JAR VÀ LỚP CHỨA MAIN()



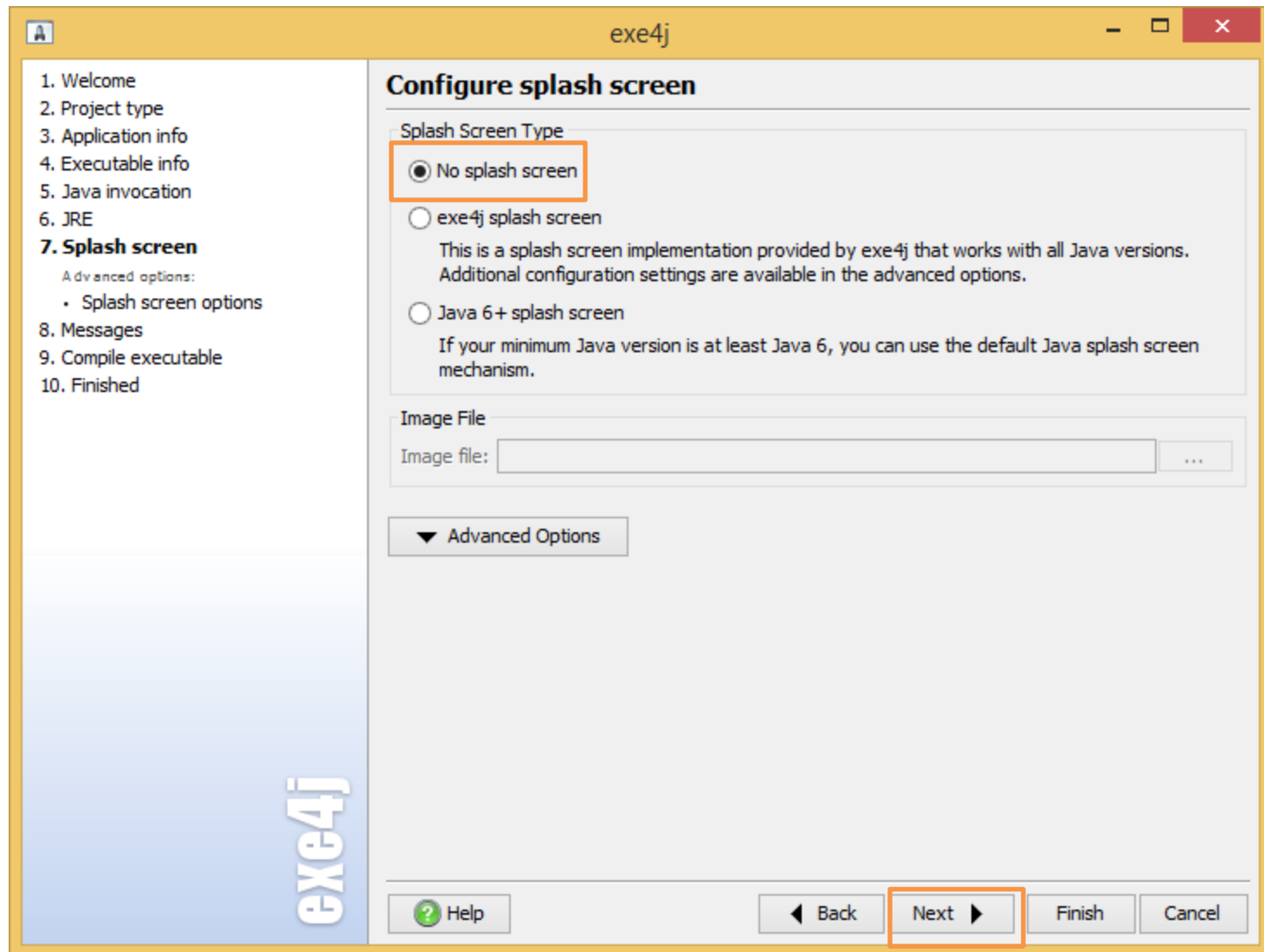
Chọn lớp chứa main()

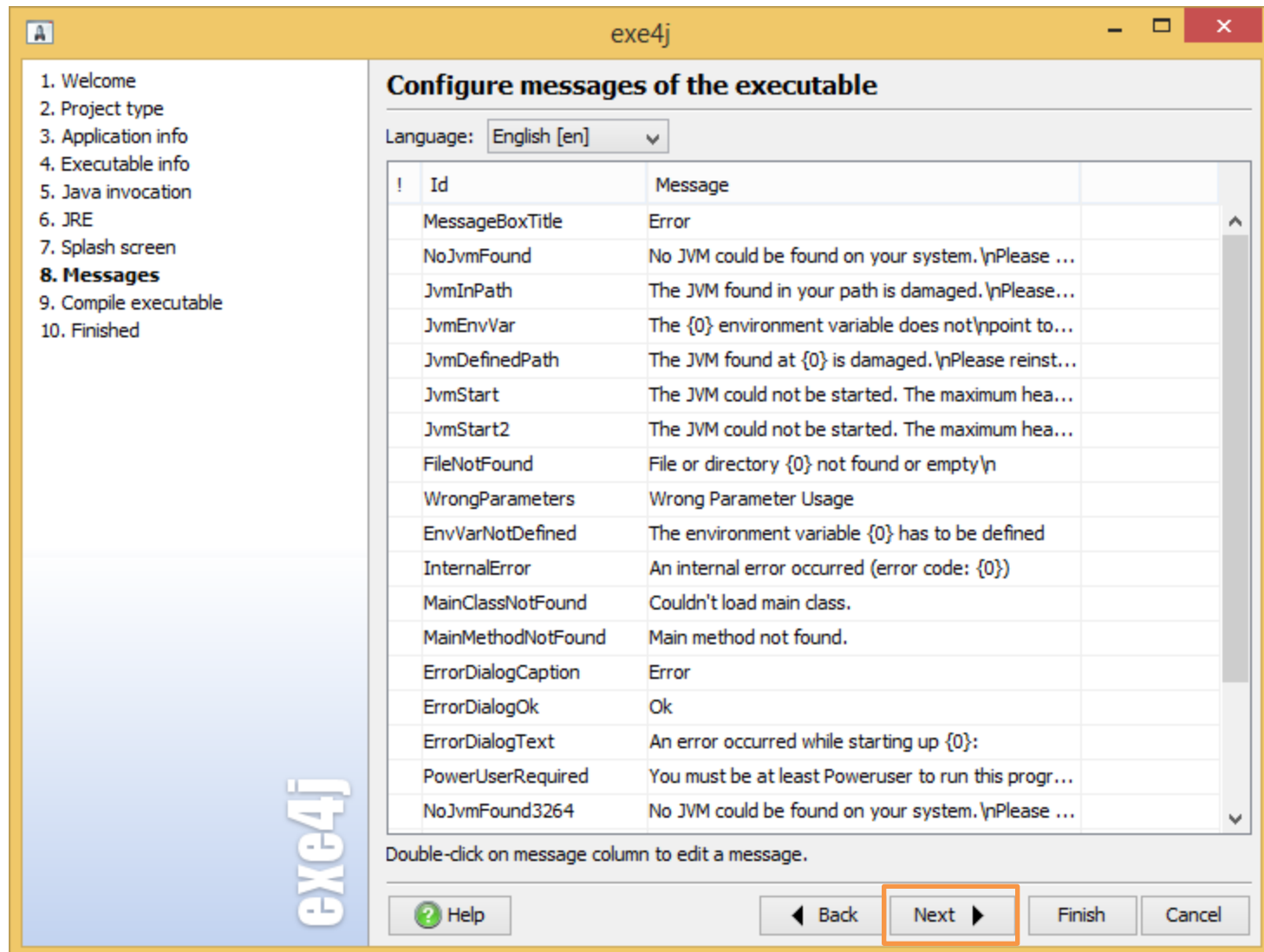


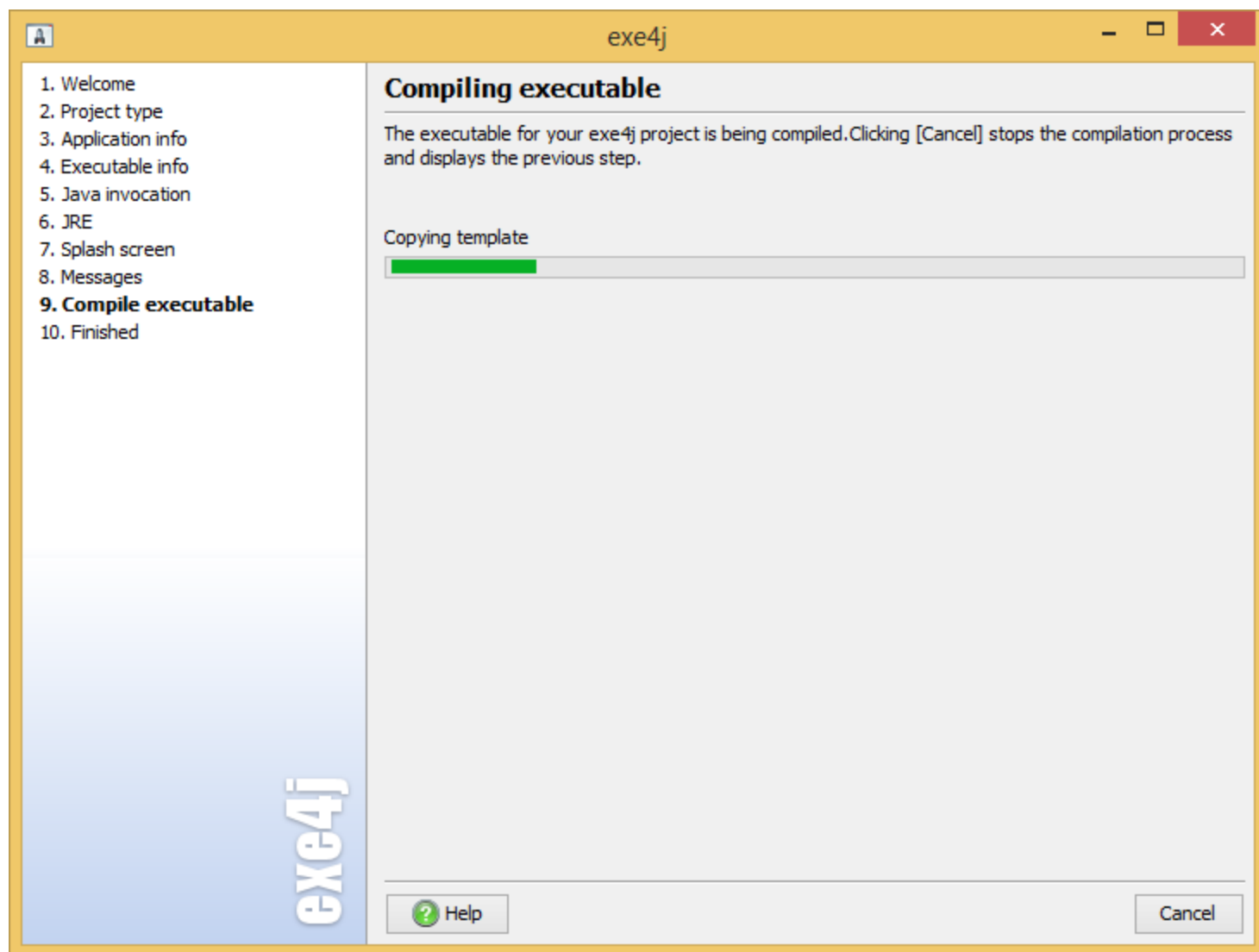
# ĐÃ CHỌN FILE JAR VÀ LỚP CHỨA MAIN()

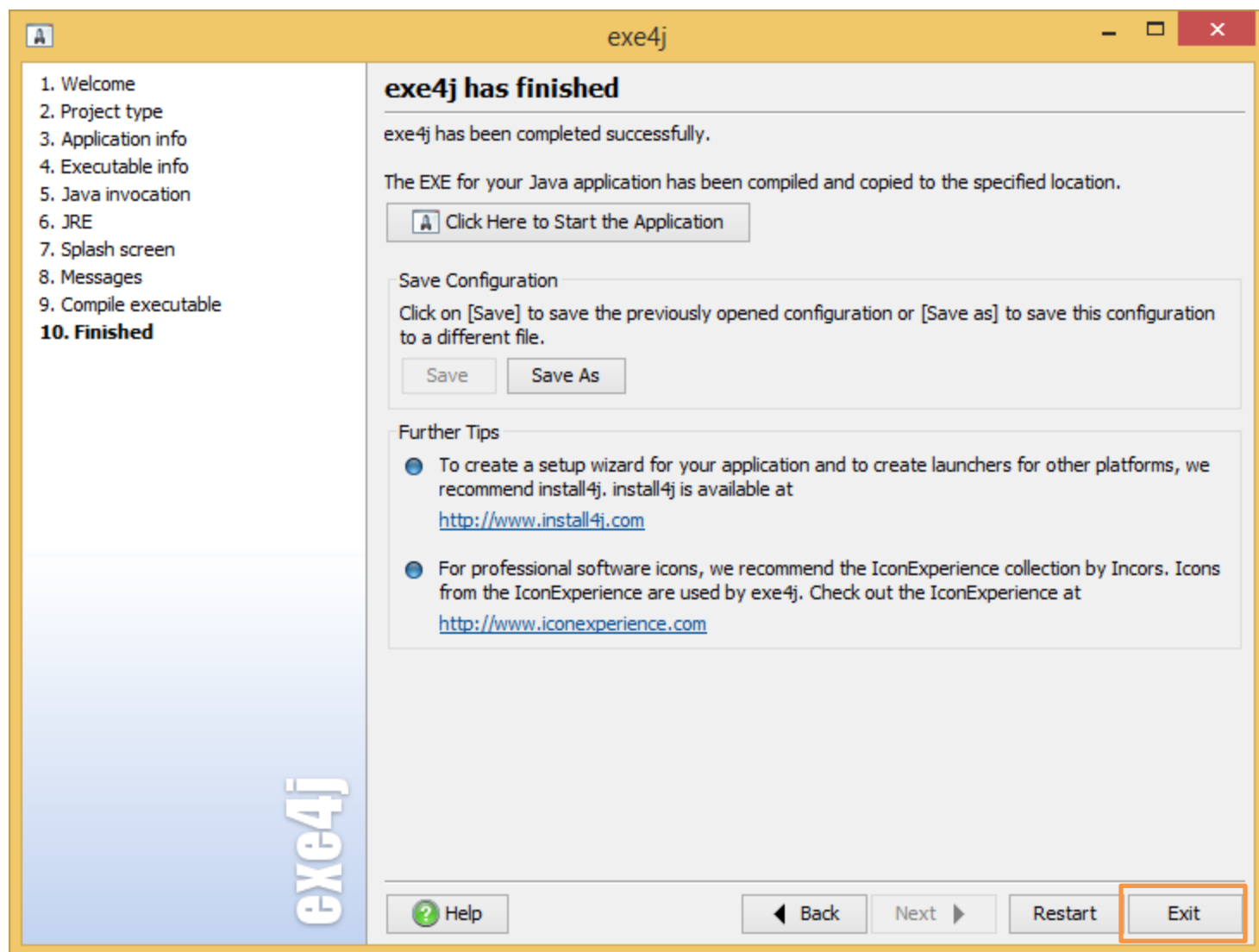


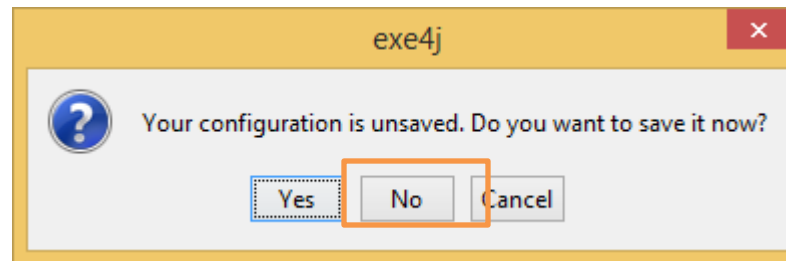
The screenshot shows the 'Configure JRE' dialog box in the 'exe4j' application. The dialog has a yellow title bar with the text 'exe4j'. On the left side, there is a list of steps: 1. Welcome, 2. Project type, 3. Application info, 4. Executable info, 5. Java invocation, 6. JRE, 7. Splash screen, 8. Messages, 9. Compile executable, 10. Finished. Step 6, 'JRE', is selected and highlighted. Below step 6, there are 'Advanced options' listed: 'Search sequence' and 'Preferred VM'. The main area of the dialog is titled 'Configure JRE' and contains the text: 'Please define the minimum version requirements for the JRE that your application will be started with.' Below this text, there are two input fields: 'Minimum version:' with the value '1.5' and 'Maximum version:' which is empty. To the right of these fields are examples: '(e.g. 1.4)' for the minimum version and '(e.g. 1.6 or empty)' for the maximum version. There are two checkboxes: 'Allow JREs with a beta version number' and 'Only allow JDKs and no JREs', both of which are unchecked. Below the checkboxes is a button labeled 'Advanced Options' with a downward arrow. At the bottom of the dialog, there are four buttons: 'Help' (with a question mark icon), 'Back' (with a left arrow icon), 'Next' (with a right arrow icon, highlighted with an orange box), and 'Finish'. The 'Next' button is the focus of the orange box.

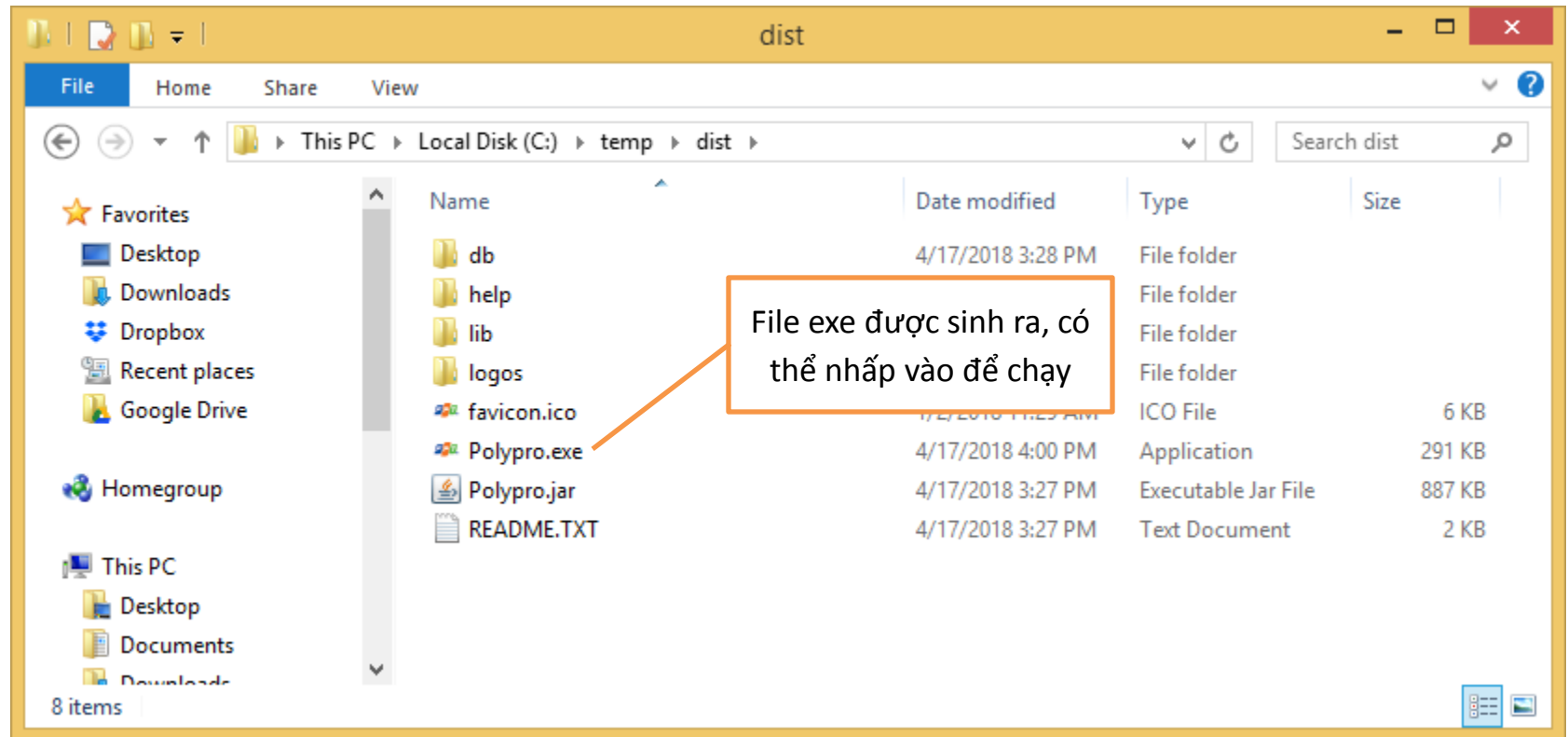




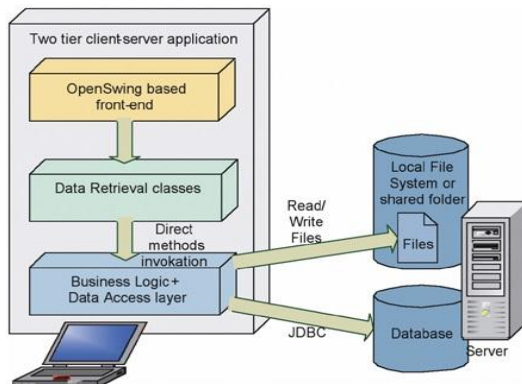










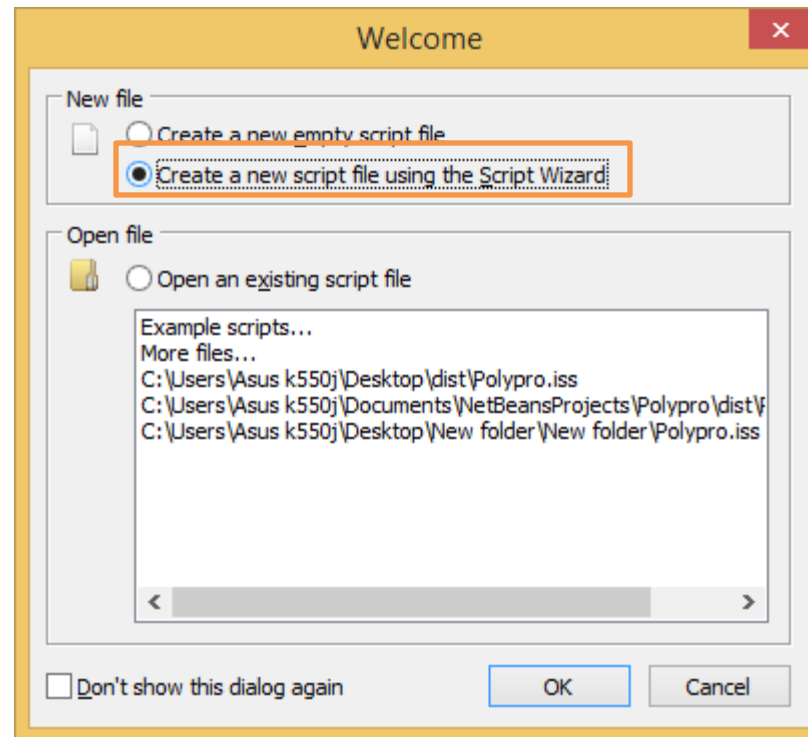


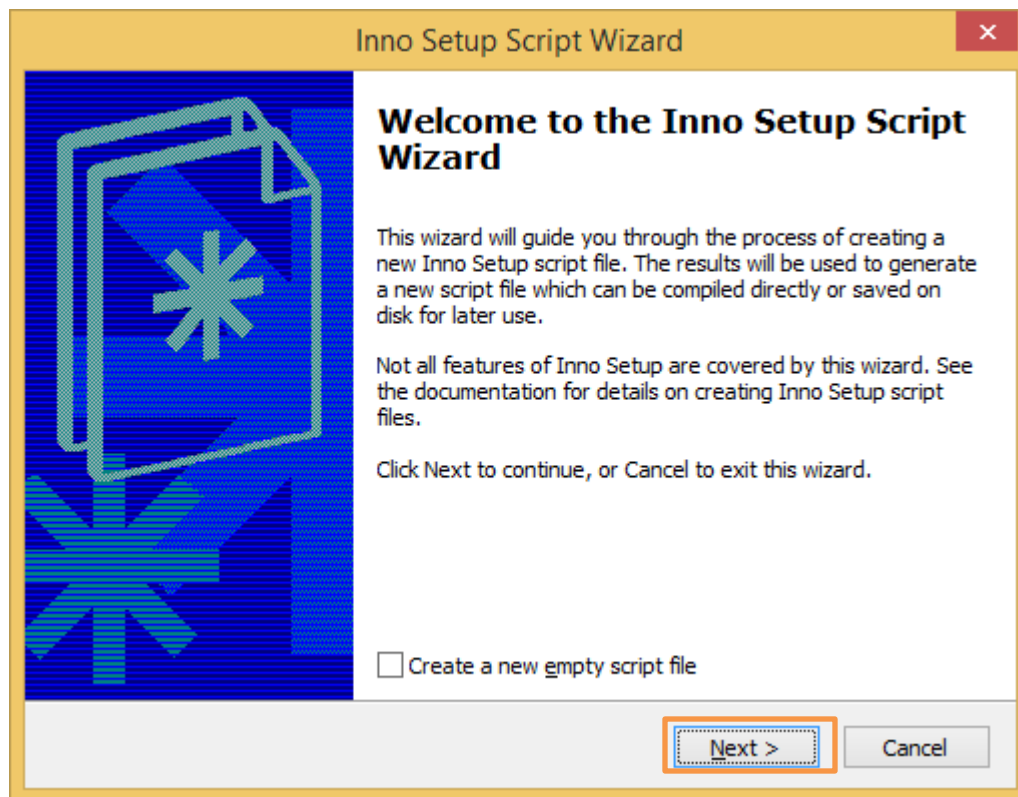
## SAMPLE PROJECT

### BÀI 8: ĐÓNG GÓI VÀ TRIỂN KHAI

# Hướng dẫn tạo file cài đặt với Inno Setup

❑ Inno Setup giúp đóng gói cài đặt





Inno Setup Script Wizard

**Application Information**  
Please specify some basic information about your application.

**Application name:**  
Poly

**Application version:**  
1.0

Application publisher:  
FPT Polytechnic

Application website:  
<http://www.poly.edu.vn/>

bold = required

< Back Next > Cancel

Điền tên ứng dụng, phiên bản,  
tên nhà phát hành và website  
chứa thông tin về sản phẩm

# CHỈ ĐỊNH NƠI ĐẶT ỨNG DỤNG KHI CÀI

**Inno Setup Script Wizard**

**Application Folder**  
Please specify folder information about your application

**Application destination base folder:**  
Program Files folder

**Application folder name:**  
Poly

☒ Allow user to change the application folder

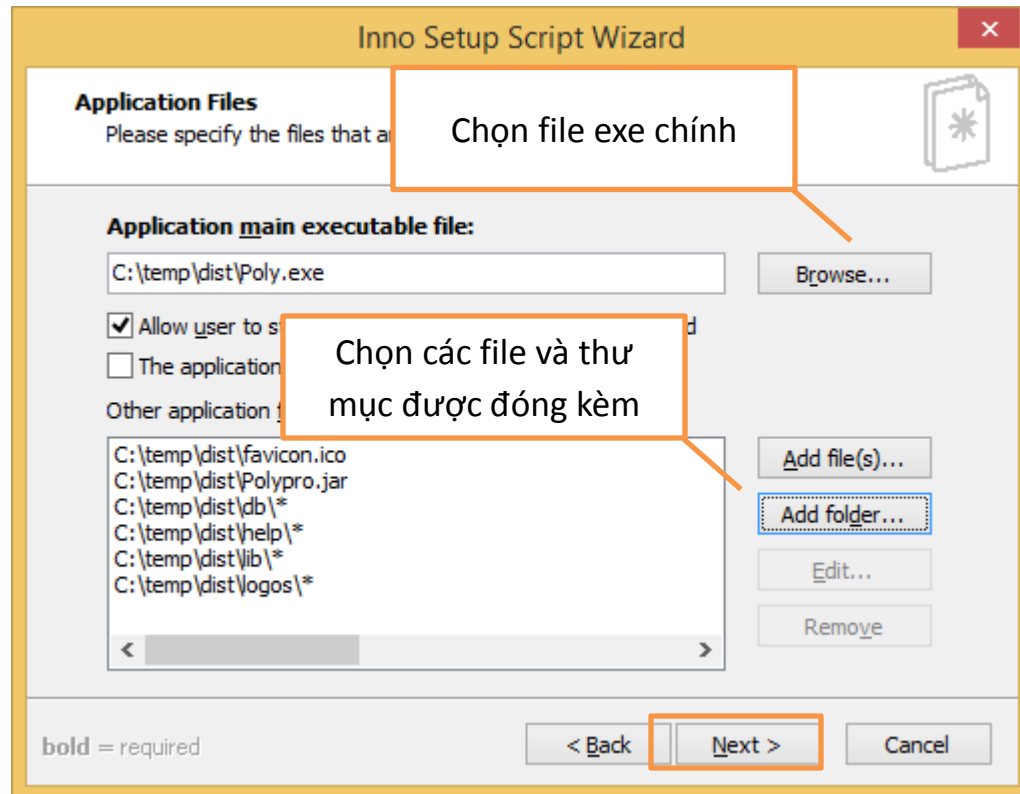
Other:  
☐ The application doesn't need a folder

bold = required

< Back   **Next >**   Cancel

Tên thư mục chứa ứng dụng được tạo ra lúc cài đặt

# CHỌN FILE EXE VÀ CÁC THƯ MỤC CẦN ĐÓNG



Inno Setup Script Wizard

**Application Shortcuts**  
Please specify which shortcuts should be created for your application.

☒ **Create a shortcut to the main executable in the common Start Menu Programs folder**  
Application Start Menu folder name:

☒ Allow user to change the Start Menu folder name  
☐ Allow user to disable Start Menu folder creation  
☐ Create an Internet shortcut in the Start Menu folder  
☐ Create an Uninstall shortcut in the Start Menu folder

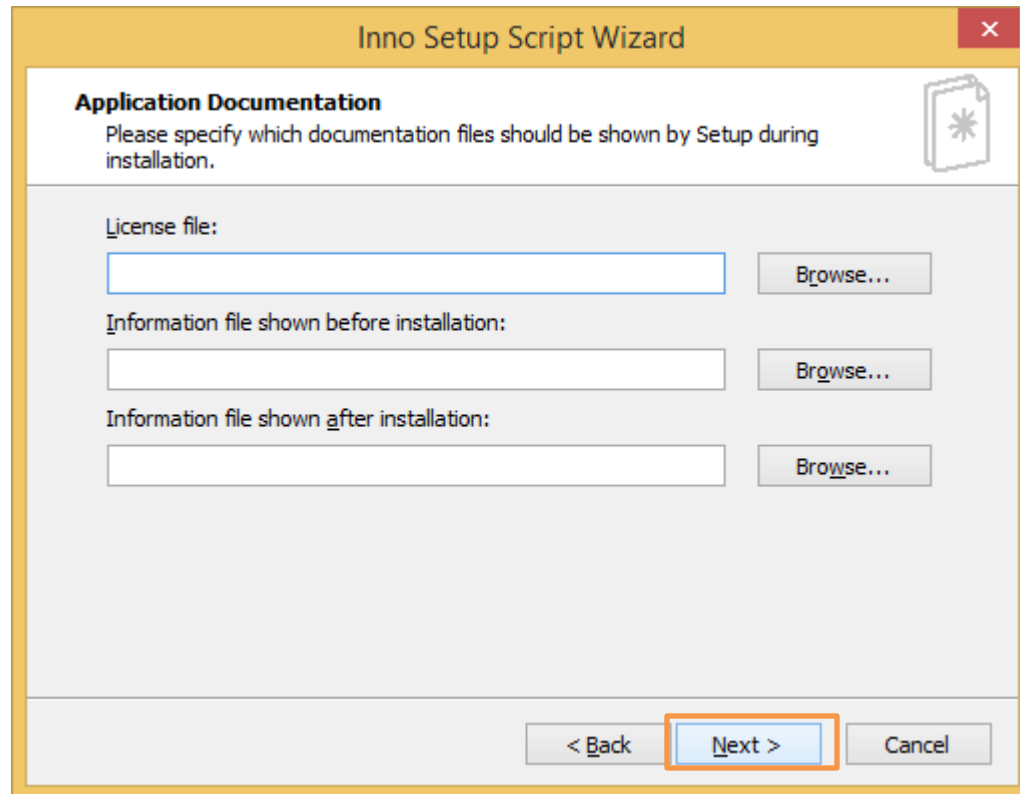
Other shortcuts to the main executable:

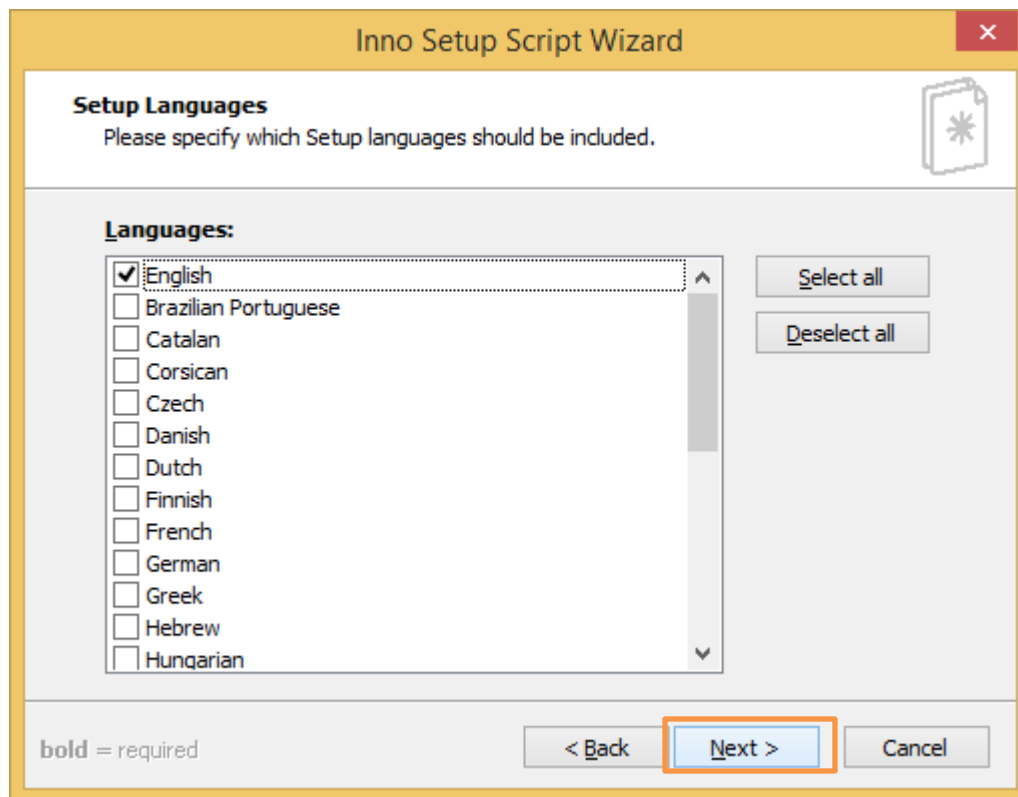
☒ Allow user to create a desktop shortcut  
☒ Allow user to create a Quick Launch shortcut on older versions of Windows

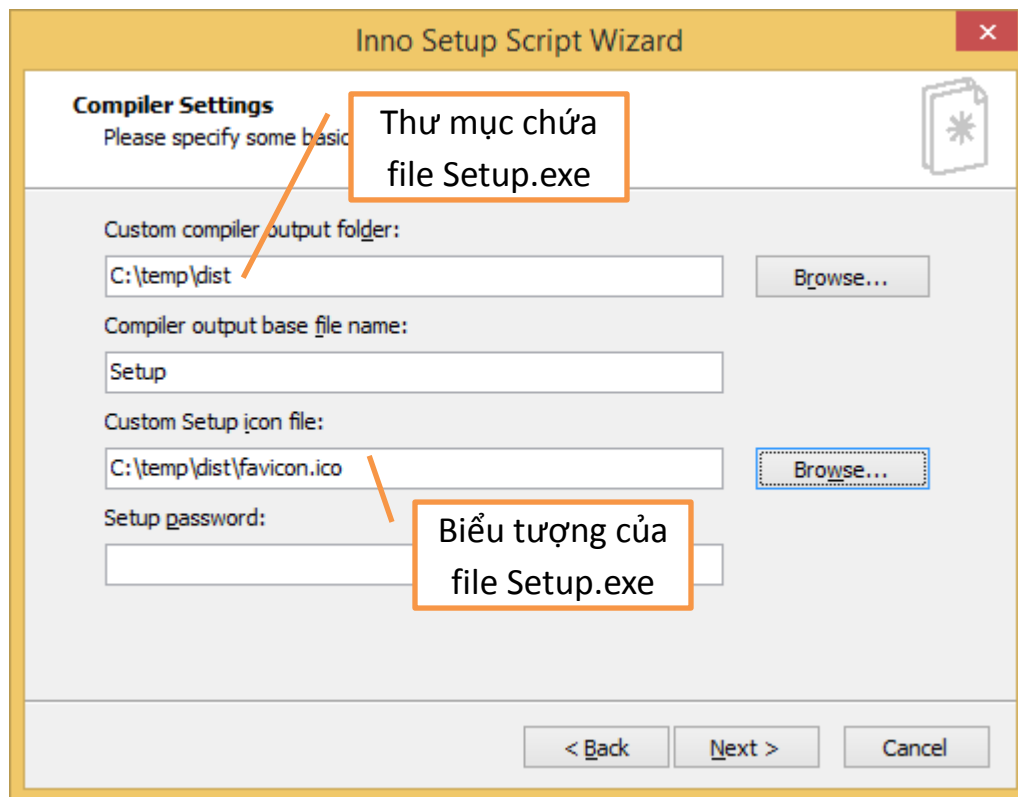
bold = required

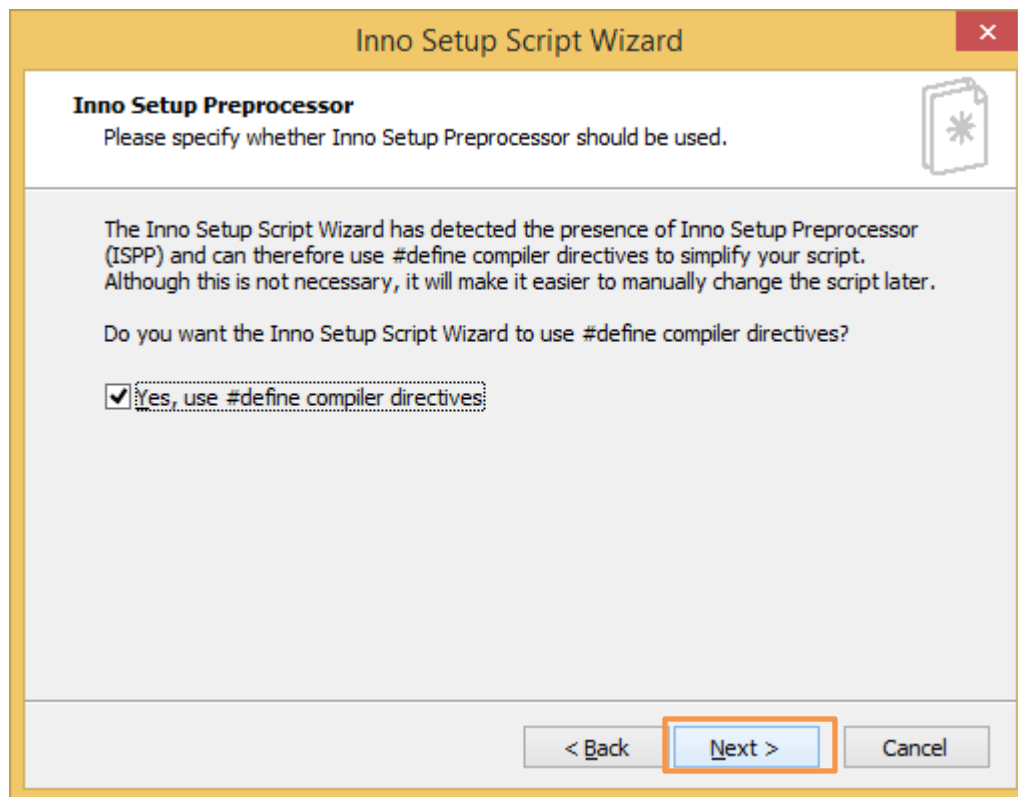
< Back   **Next >**   Cancel

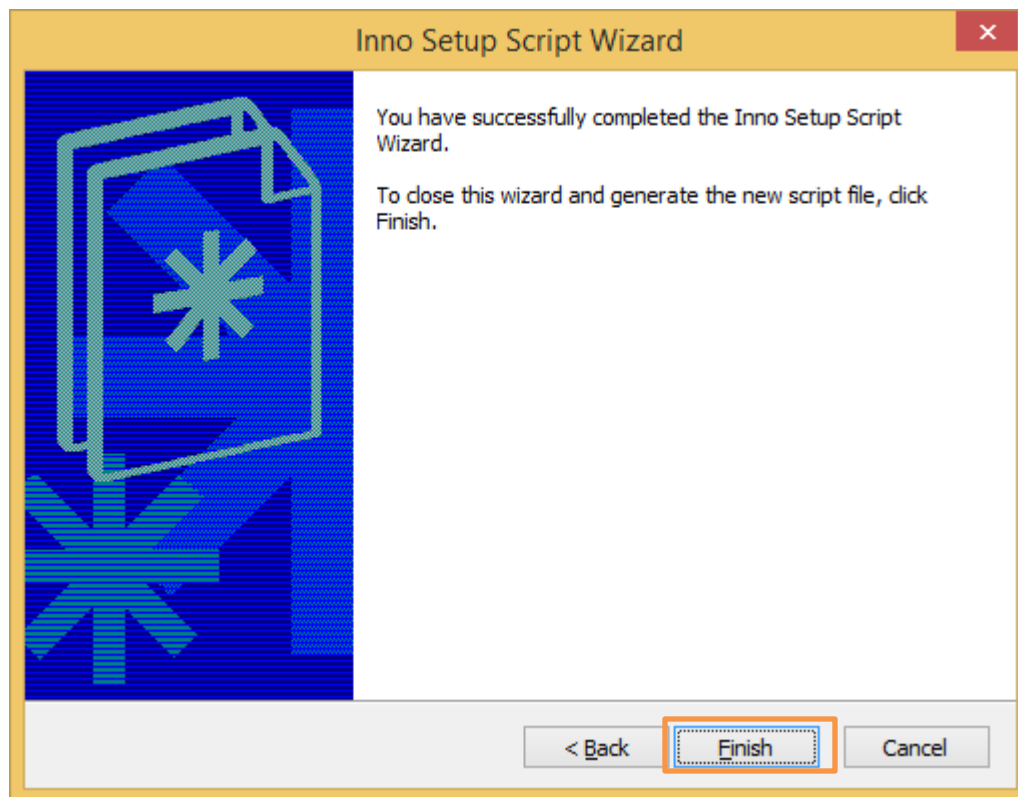




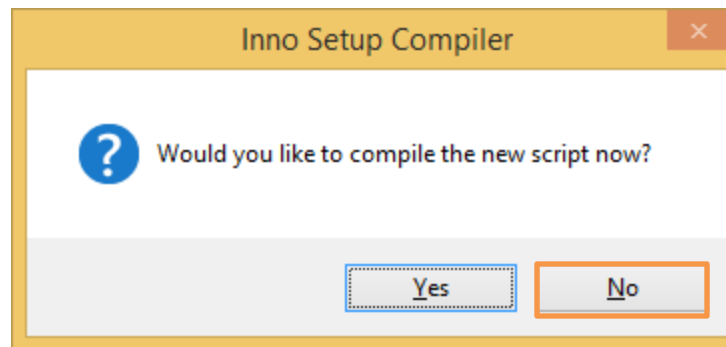


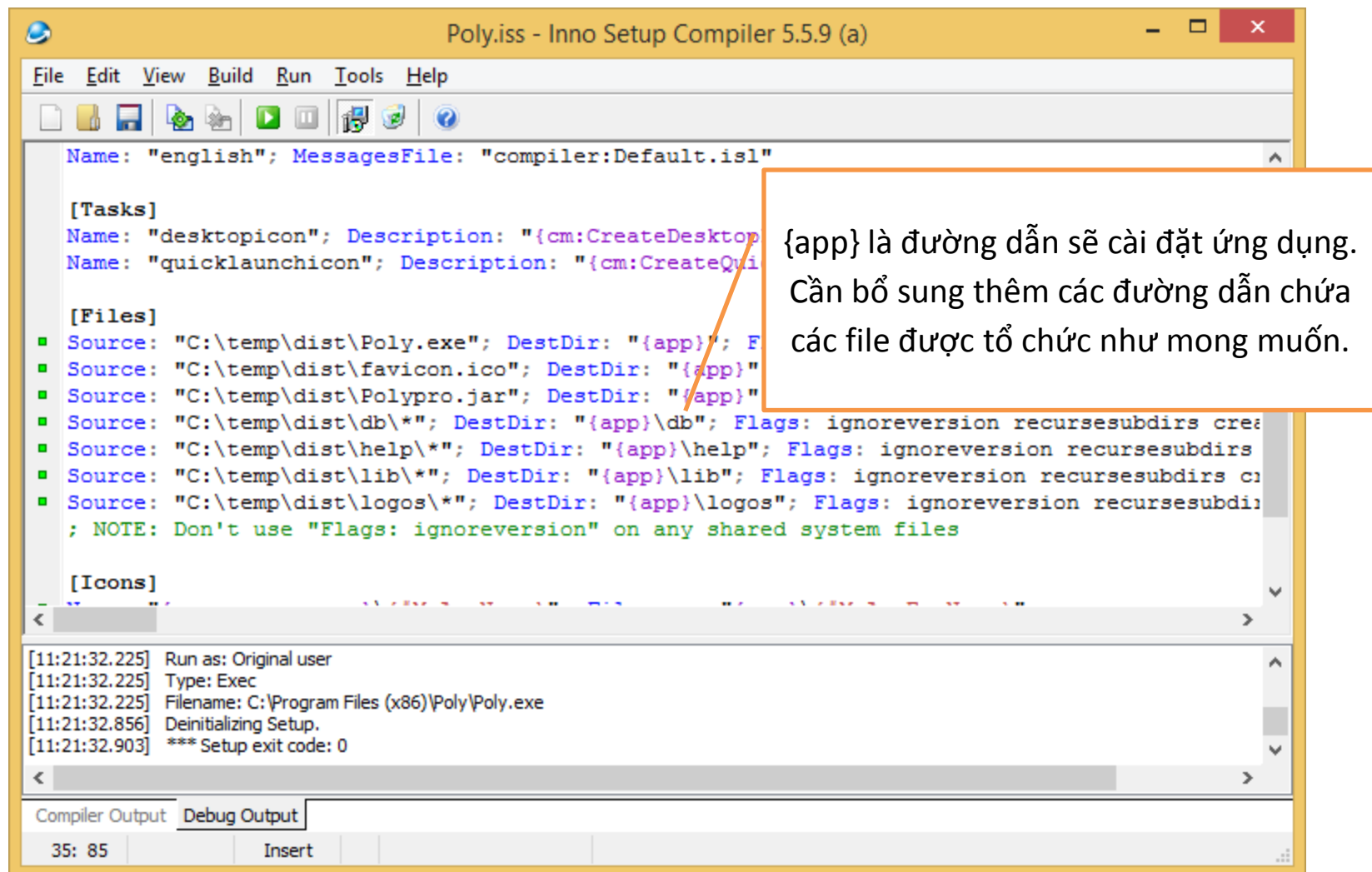






- ☐ Chọn [No] để chuyển đến bước hiệu chỉnh một số thông số trong file mã đóng gói





**Poly.iss - Inno Setup Compiler 5.5.9 (a)**

File Edit View Build Run Tools Help

Name: "english"; MessagesFile: "compiler:Default.isl"

[Tasks]  
 Name: "desktopicon"; Description: "{cm:CreateDesktopIcon}";  
 Name: "quicklaunchicon"; Description: "{cm:CreateQuickLaunchIcon}";

[Files]  
 ■ Source: "C:\temp\dist\Poly.exe"; DestDir: "{app}"; Flags: ignoreversion recursesubdirs createonlyifdoesnotexist  
 ■ Source: "C:\temp\dist\favicon.ico"; DestDir: "{app}"; Flags: ignoreversion recursesubdirs createonlyifdoesnotexist  
 ■ Source: "C:\temp\dist\Polypro.jar"; DestDir: "{app}"; Flags: ignoreversion recursesubdirs createonlyifdoesnotexist  
 ■ Source: "C:\temp\dist\db\\*"; DestDir: "{app}\db"; Flags: ignoreversion recursesubdirs createonlyifdoesnotexist  
 ■ Source: "C:\temp\dist\help\\*"; DestDir: "{app}\help"; Flags: ignoreversion recursesubdirs createonlyifdoesnotexist  
 ■ Source: "C:\temp\dist\lib\\*"; DestDir: "{app}\lib"; Flags: ignoreversion recursesubdirs createonlyifdoesnotexist  
 ■ Source: "C:\temp\dist\logos\\*"; DestDir: "{app}\logos"; Flags: ignoreversion recursesubdirs createonlyifdoesnotexist  
 ; NOTE: Don't use "Flags: ignoreversion" on any shared system files

[Icons]  
 Name: "{app}\Poly.exe"; Description: "Poly"; Icon: "C:\temp\dist\favicon.ico";

[11:21:32.225] Run as: Original user  
 [11:21:32.225] Type: Exec  
 [11:21:32.225] Filename: C:\Program Files (x86)\Poly\Poly.exe  
 [11:21:32.856] Deinitializing Setup.  
 [11:21:32.903] \*\*\* Setup exit code: 0

Compiler Output Debug Output

35: 85 Insert

{app} là đường dẫn sẽ cài đặt ứng dụng.  
Cần bổ sung thêm các đường dẫn chứa các file được tổ chức như mong muốn.

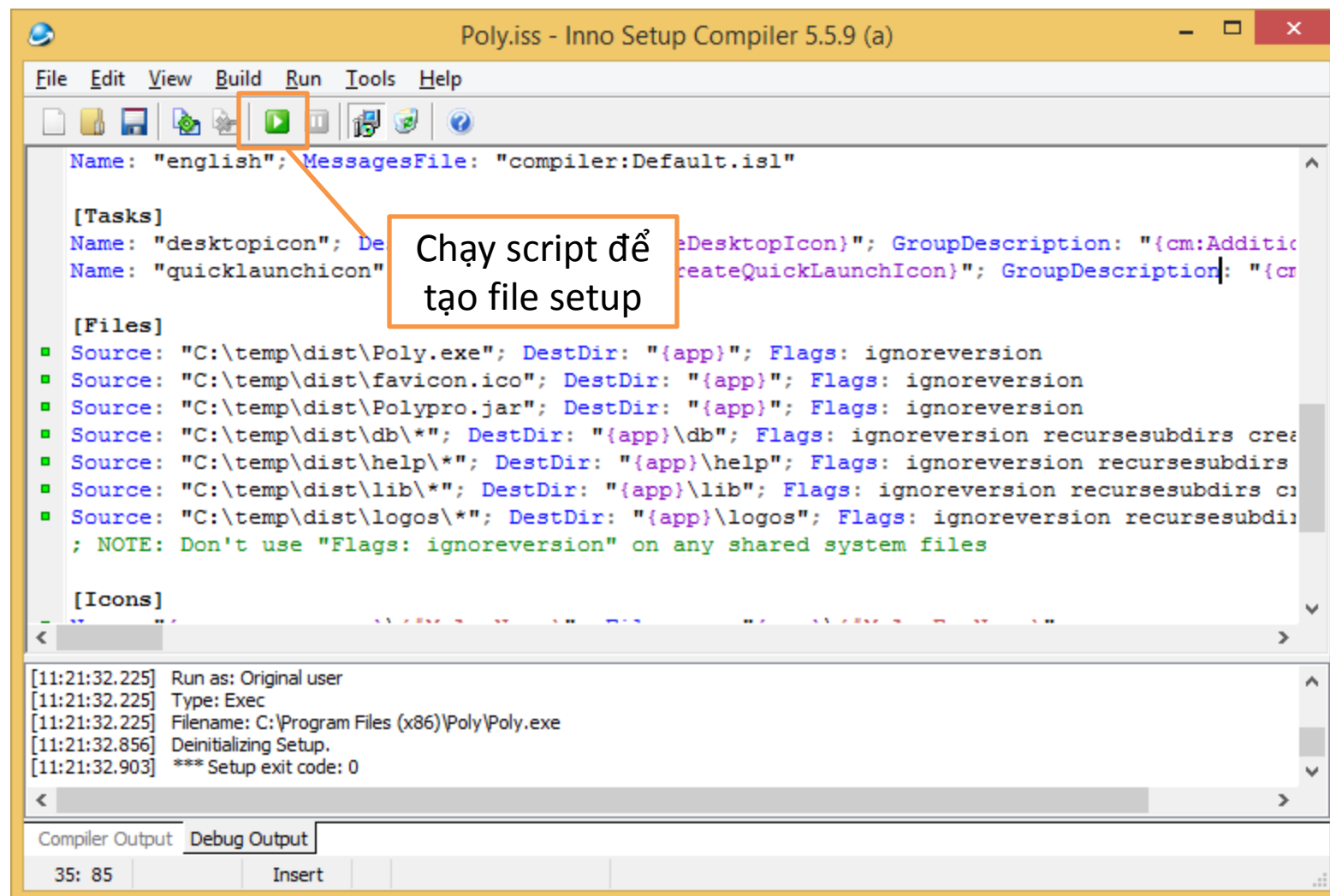
## ❑ [Files] mới tạo ra

- ❖ Source: "C:\temp\dist\Poly.exe"; DestDir: "{app}"; ...
- ❖ Source: "C:\temp\dist\favicon.ico"; DestDir: "{app}"; ...
- ❖ Source: "C:\temp\dist\Polypro.jar"; DestDir: "{app}"; ...
- ❖ Source: "C:\temp\dist\db\\*"; DestDir: "{app}"; ...
- ❖ Source: "C:\temp\dist\help\\*"; DestDir: "{app}"; ...
- ❖ Source: "C:\temp\dist\lib\\*"; DestDir: "{app}"; ...
- ❖ Source: "C:\temp\dist\logos\\*"; DestDir: "{app}"; ...

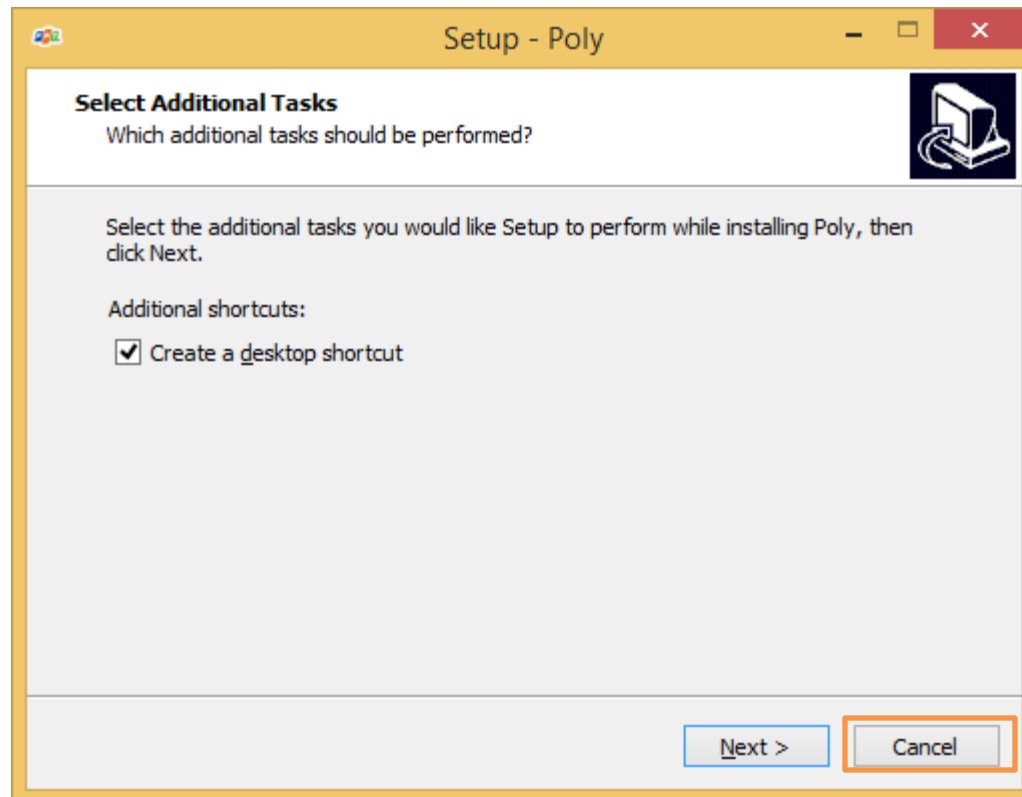
## ❑ [Files] hiệu chỉnh lại

- ❖ Source: "C:\temp\dist\Poly.exe"; DestDir: "{app}"; ...
- ❖ Source: "C:\temp\dist\favicon.ico"; DestDir: "{app}"; ...
- ❖ Source: "C:\temp\dist\Polypro.jar"; DestDir: "{app}"; ...
- ❖ Source: "C:\temp\dist\db\\*"; DestDir: "{app}\db"; ...
- ❖ Source: "C:\temp\dist\help\\*"; DestDir: "{app}\help"; ...
- ❖ Source: "C:\temp\dist\lib\\*"; DestDir: "{app}\lib"; ...
- ❖ Source: "C:\temp\dist\logos\\*"; DestDir: "{app}\logos"; ...

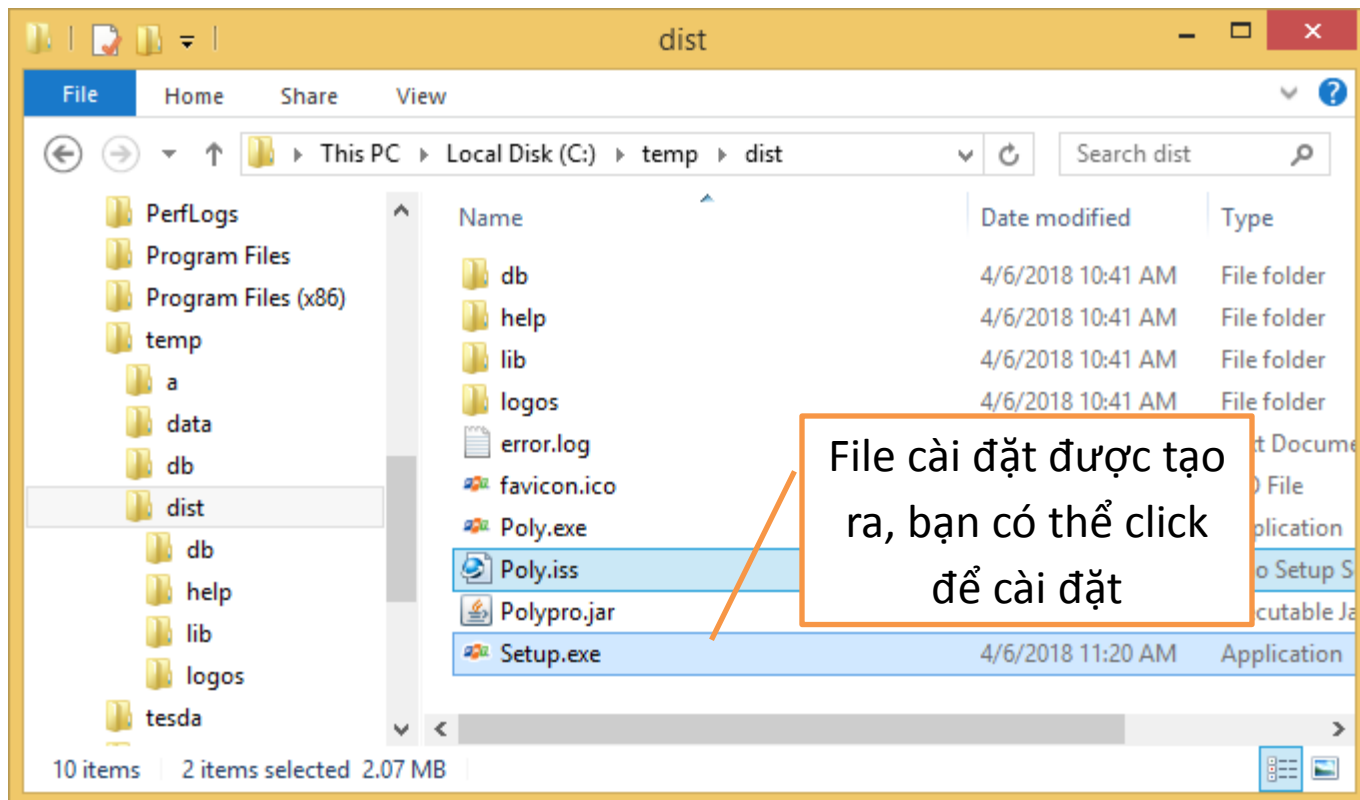




- ❑ File Setup đã được tạo ra và được tự động gọi để cài đặt, nhấn [Cancel] để bỏ qua bước cài đặt.



- ❑ Setup.exe là sản phẩm cuối cùng. Chỉ cần duy nhất file này và \*.sql để cài đặt cho người sử dụng.



- ☐ Chạy \*.sql để tạo CSDL
- ☐ Chạy Setup.exe để cài đặt ứng dụng

- ☑ Hướng dẫn cài đặt phần mềm hỗ trợ
- ☑ Hướng dẫn tạo file exe
- ☑ Hướng dẫn tạo file cài đặt
- ☑ Hướng dẫn cài đặt phần mềm





**Cảm ơn**