DEPLOYMENT OF SOFTWARE IN WINDOWS

DEPLOYMENT OF PYTHON SOFTWARE IN WINDOWS

- In order to create a real software, we need an executable file for the application / project / program
- The exe file can be obtained using **auto-py-to-exe** or **pyinstaller** softwares in python

Requirements

- Inno Setup Compiler
- Input executable file (.exe)
- **OS:** Windows Vista or Above Versions

Inno Setup Compiler (Setup Builder Application)

- It is a **free desktop software** installer for windows programs (creating installer packages on windows to make an exe file for setup software in windows OS)
- It is developed by Jordan Russell and Martijn Laan
- It is **free and open source product**
- It supports installation, uninstallation and upgrades of software.

Technical Details

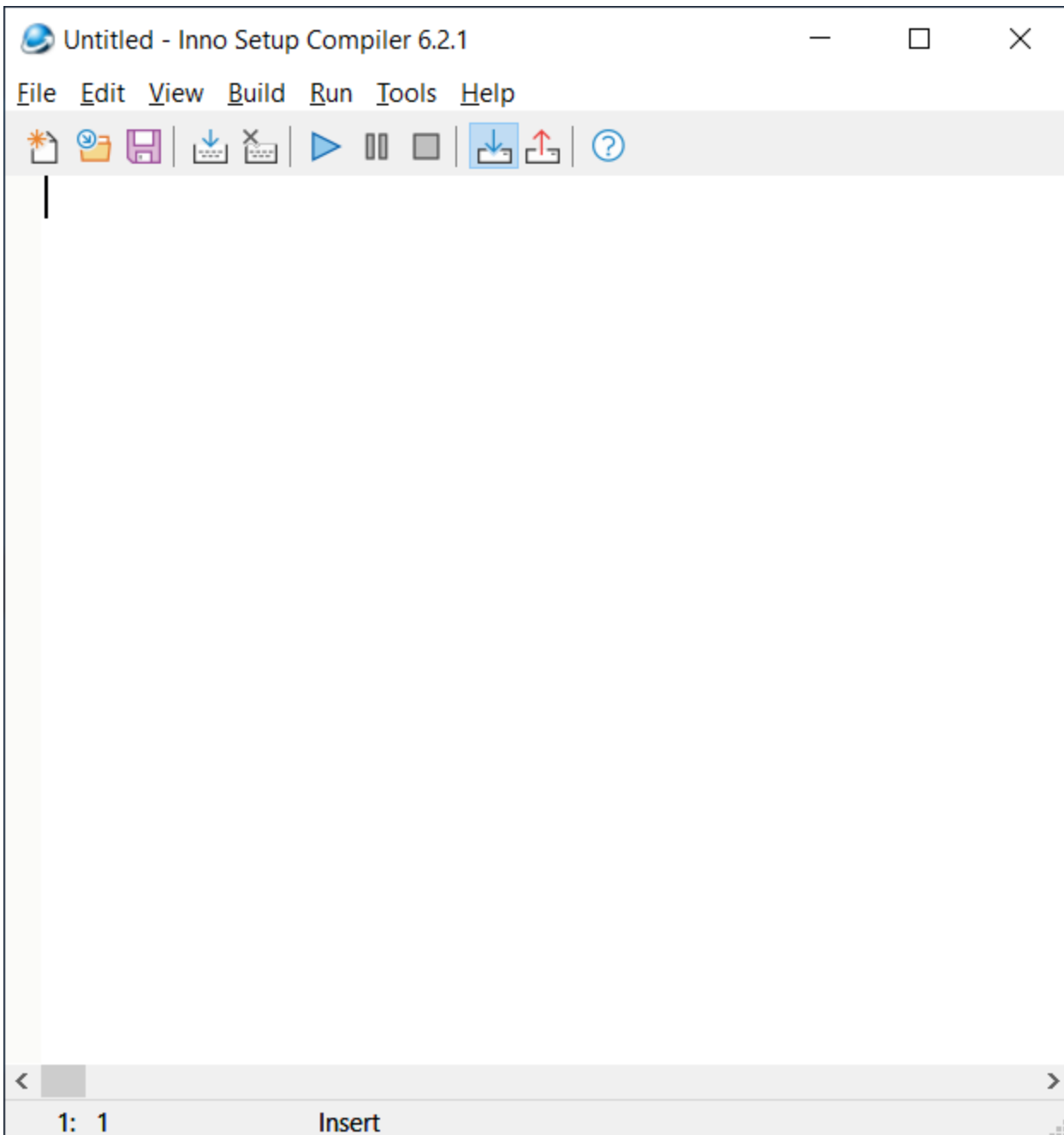| S.N	Information	Description
1.	Type of the product	Free and Open Source
2.	Developer	Jordan Russell's Software
3.	First Release	1997
4.	Developed By	Delphi and Pascal Languages
5.	**Supported OS**	**Windows**
6.	**Type**	**Setup Creator**
7.	License	Free - Modified BSD License
8.	Latest Release	6.2.1 April 2022

Features of Inno Setup Compiler

- It supports all the version of windows except windows 2000, XP and Server 2003
- It supports disk spanning which is a feature of CD and DVD burning software
- Customizable setup types. Ex.
- It supports the creation of shortcuts, including in the Start Menu and on the desktop
- It supports for multiple platforms (IA-32, x64 and IA-64) in a single binary. ARM64 is also supported.
- It supports for multilingual installs.
- It supports for passworded and encrypted installs.
- It supports the creation of registry and .INI entries.
- Integrated Pascal scripting engine.
- Full source code for inno setup is available from GitHub.

I. CREATING AND DEPLOYING SOFTWARE IN WINDOWS USING INNO SETUP COMPILER
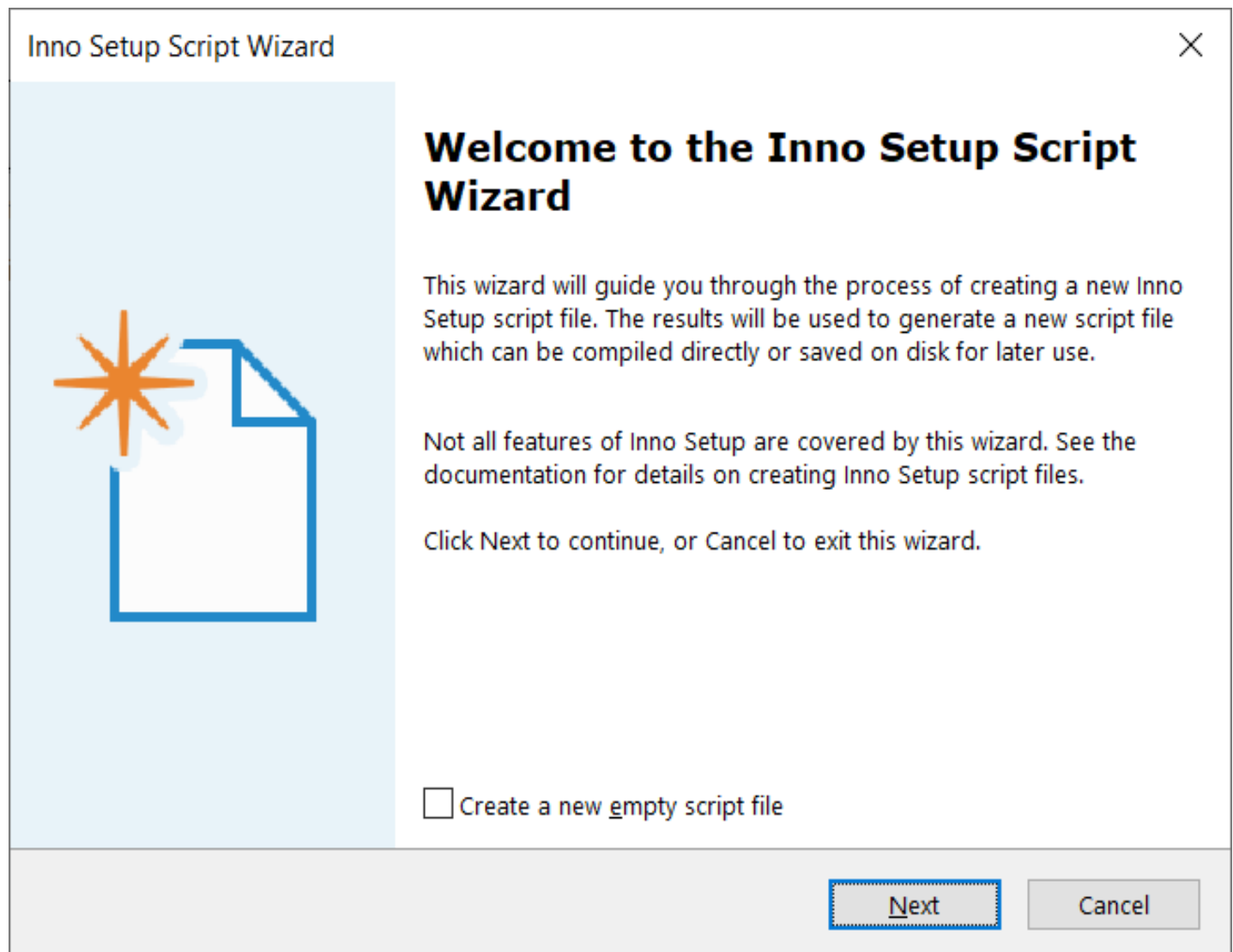
Setup Builder	:	**Inno Setup Compiler 6.2.1**
Application	:	Windows Application (WxPython GUI)
Input File	:	.exe file
OS	:	Windows 10

Step 1: Launching Inno Setup Compiler
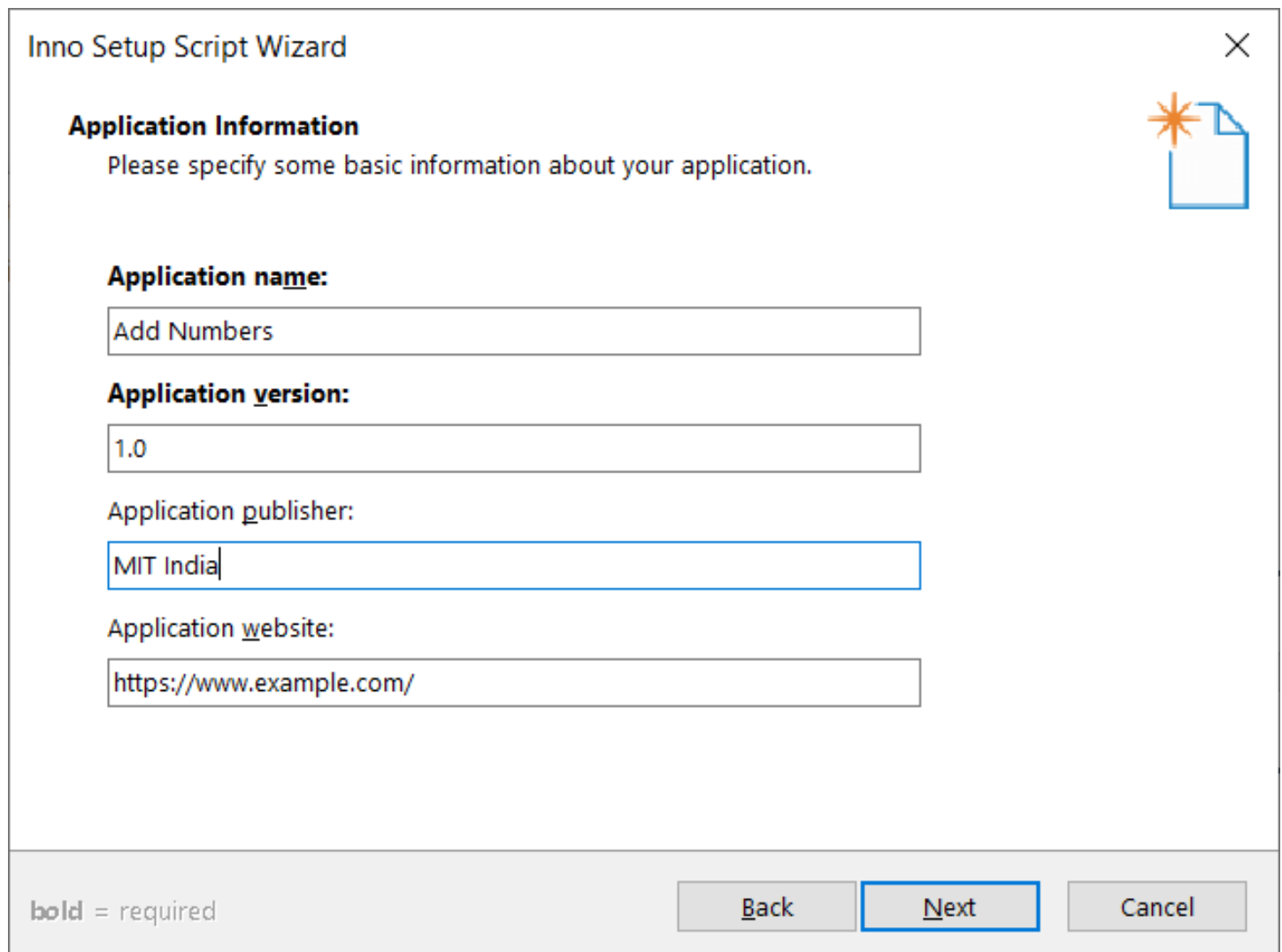
Step 2: Click New Menu Item
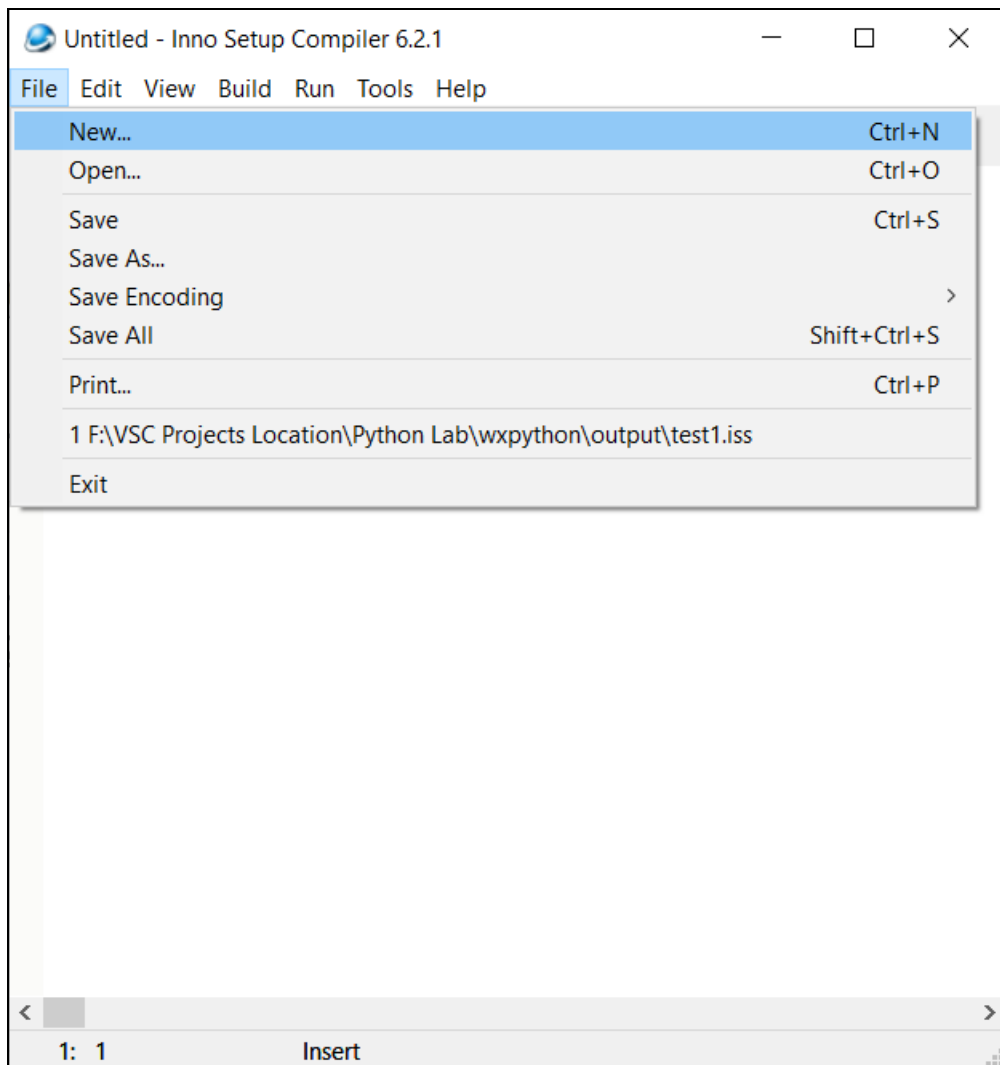
Step 3: Click Next to create a new script file using the script wizard

Inno Setup Script Wizard   ✕

Welcome to the Inno Setup Script Wizard

This wizard will guide you through the process of creating a new Inno Setup script file. The results will be used to generate a new script file which can be compiled directly or saved on disk for later use.

Not all features of Inno Setup are covered by this wizard. See the documentation for details on creating Inno Setup script files.

Click Next to continue, or Cancel to exit this wizard.

☐ Create a new empty script file

Next   Cancel

Step 4: Provide Details for Application Information
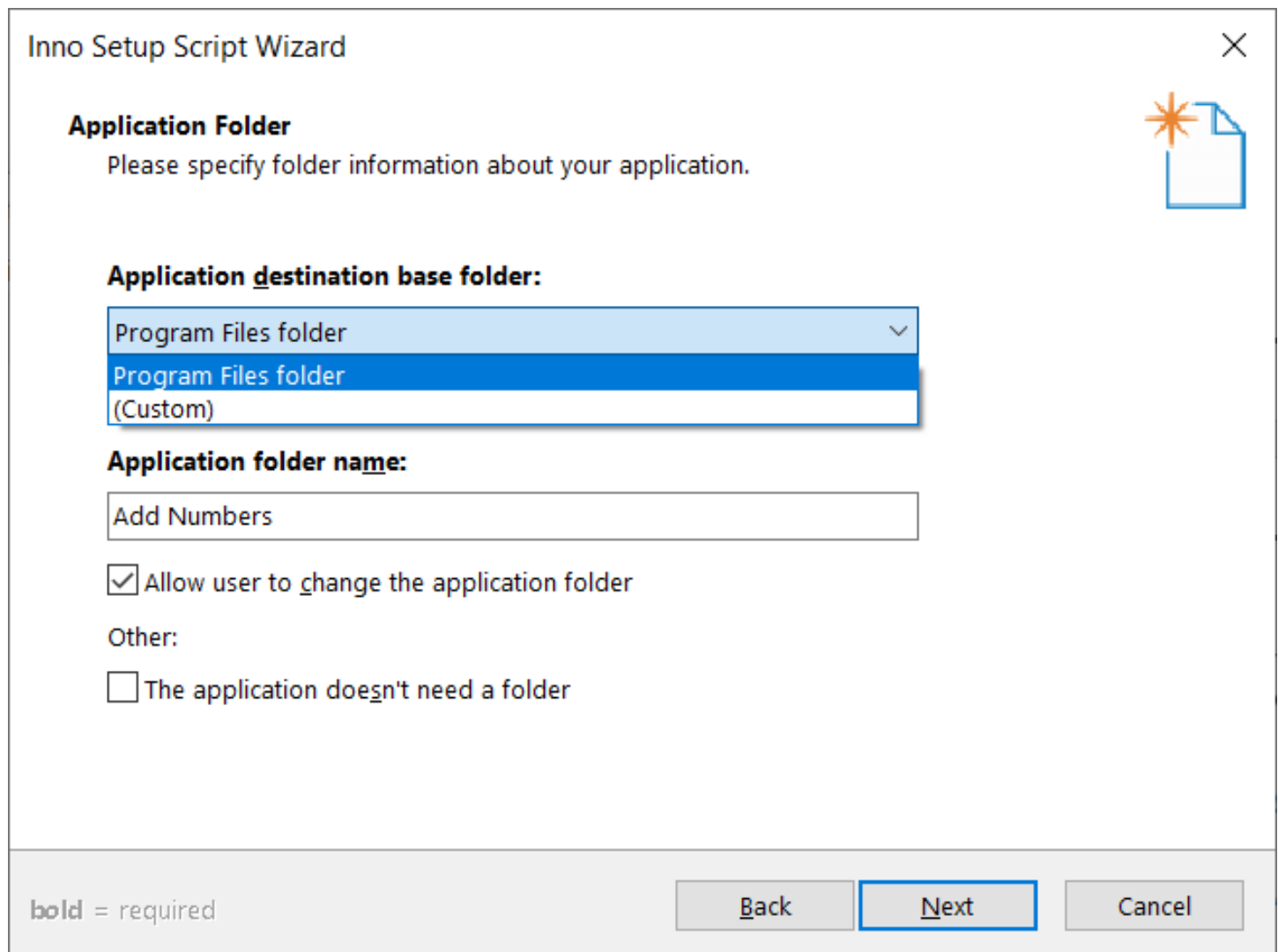
Inno Setup Script Wizard   ✕

Application Information
Please specify some basic information about your application.

Application name:

Add Numbers

Application version:

1.0

Application publisher:

MIT India

Application website:

https://www.example.com/

bold = required   Back   Next   Cancel

- Here, we need to provide the details like below
  - Application Name (Setup File Name)
  - Version of the Software
    - This will be needed when you want to provide further update of the application
  - Publisher Name
  - Application Website.

Step 5: Provide Details for Application Destination Folder

Inno Setup Script Wizard   ✕

Application Folder
Please specify folder information about your application.

Application destination base folder:

Program Files folder   ⌄
Program Files folder
(Custom)

Application folder name:

Add Numbers

☑ Allow user to change the application folder

Other:

☐ The application doesn't need a folder

bold = required   Back   Next   Cancel

- Here, we need to specify the application destination folder for storing the setup file and its related files.

- Usually it is program files of windows which can be either **C:\Program Files** or **C:\Program Files (x86)**.

Step 6: Selection of **Input Executable (.exe) File for Making Software**

Submission of **Executable File (add.exe) in Windows**
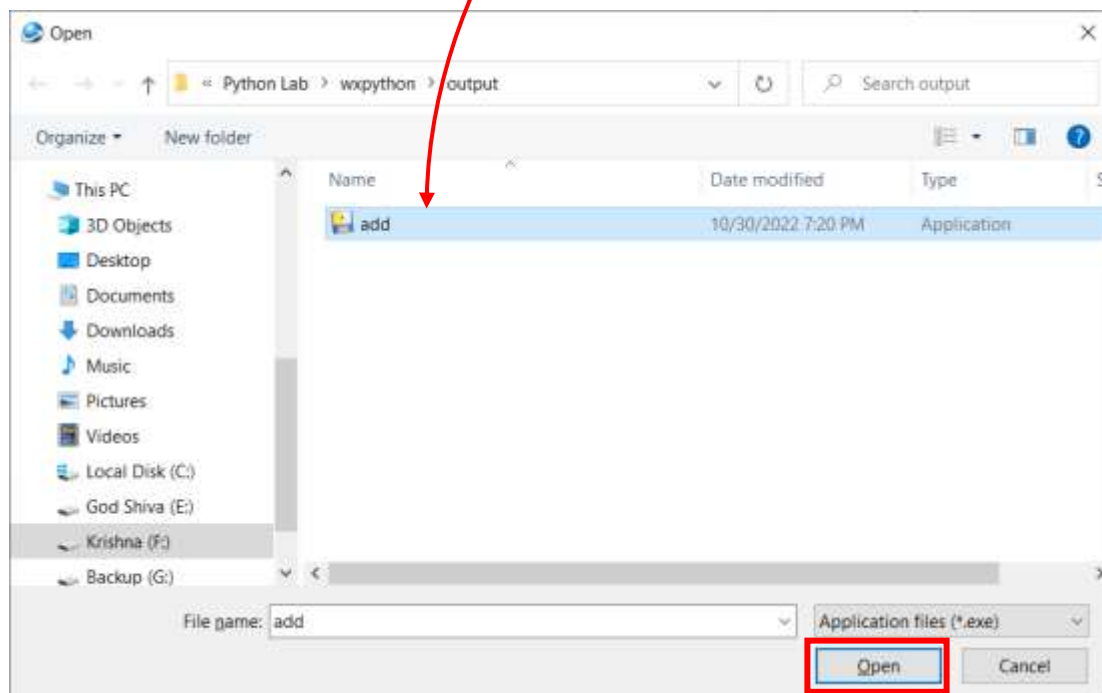
Step 7: Details for Application File Association and Click Next

Inno Setup Script Wizard   ✕

Application File Association
Please specify which file association should be created for your application.

☑ Associate a file type to the main executable

Application file type name:

Add Numbers File

Application file type extension:

.myp
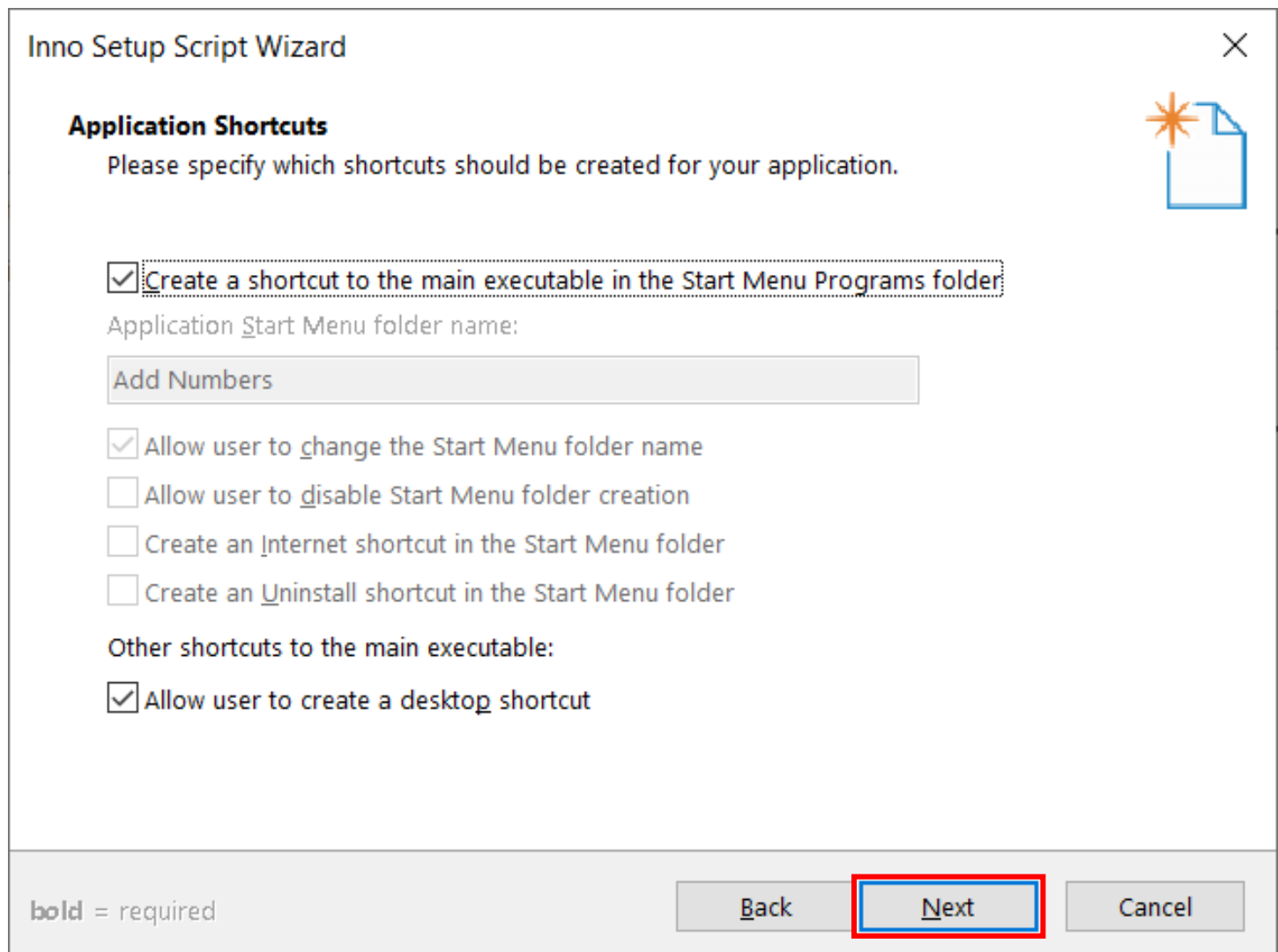
bold = required   Back   **Next**   Cancel

Step 8: Details for Application Shortcuts

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 Start Menu Programs folder

Application Start Menu folder name:

Add Numbers

☑ 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

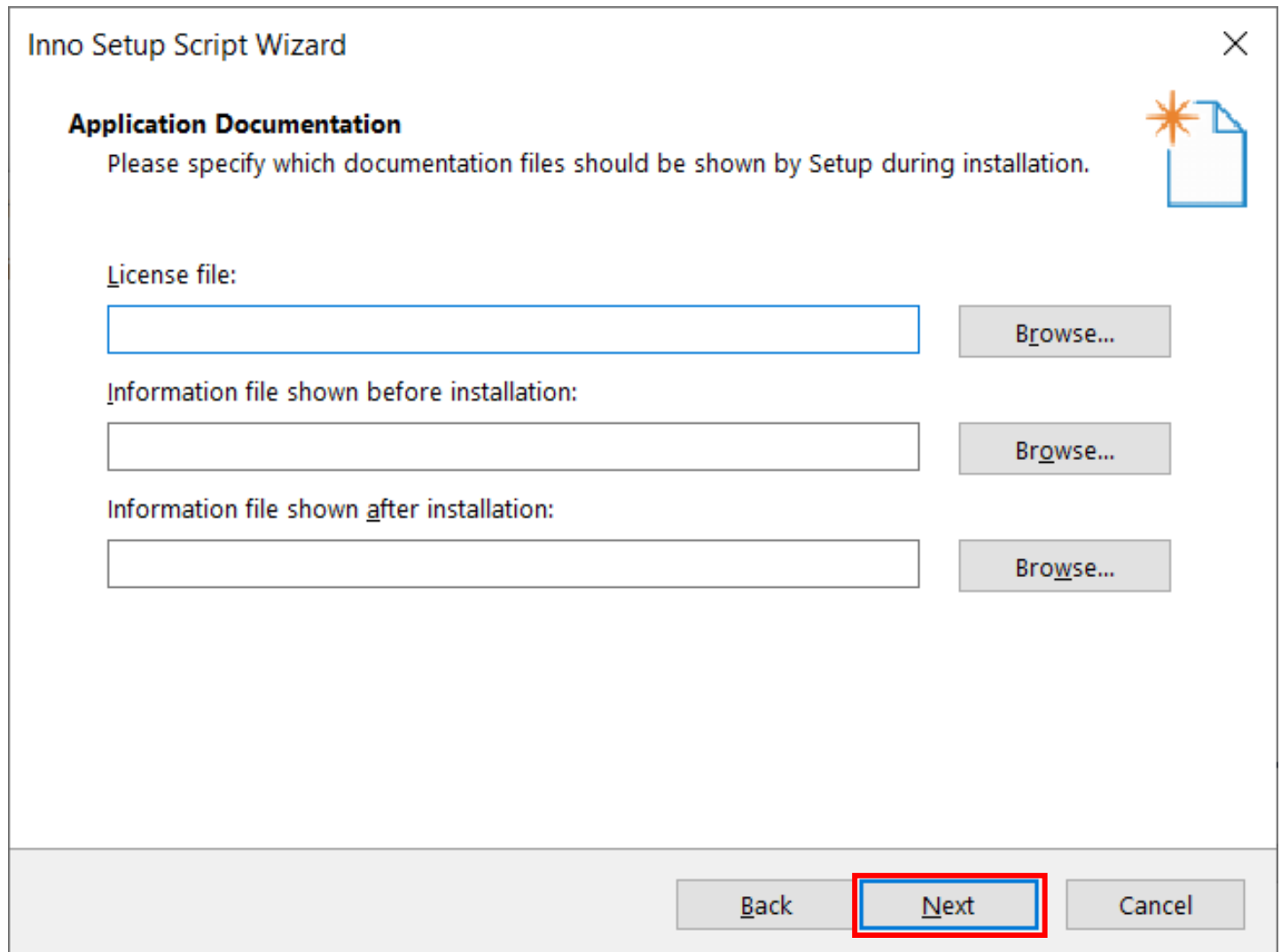Other shortcuts to the main executable:

☑ Allow user to create a desktop shortcut

bold = required   Back   Next   Cancel

- Here, you can **check or uncheck the shortcuts** for desktop and start menu programs for the main executable (.exe) file.

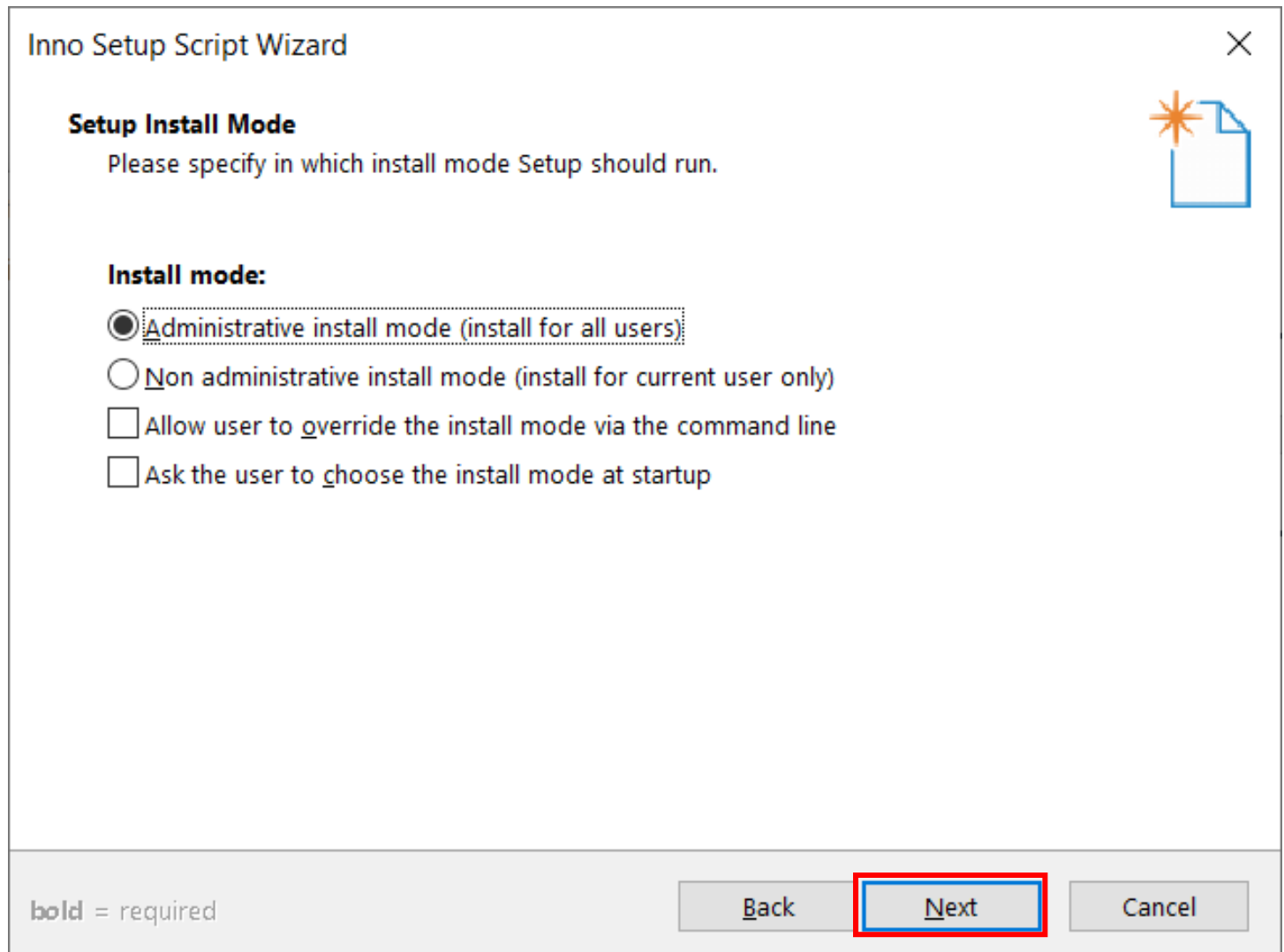## Step 9: Provide Details for Application Documentation

Inno Setup Script Wizard   ✕

Application Documentation
Please specify which documentation files should be shown by Setup during installation.

License file:

[   ]   Browse...

Information file shown before installation:

[   ]   Browse...

Information file shown after installation:

[   ]   Browse...

Back   **Next**   Cancel

- This is an optional
- If you want to add any license, you add it using Browse button.

Step 10: Select Option for Setup Install Mode

Inno Setup Script Wizard   ✕

Setup Install Mode
Please specify in which install mode Setup should run.

Install mode:

◉ Administrative install mode (install for all users)

○ Non administrative install mode (install for current user only)

☐ Allow user to override the install mode via the command line

☐ Ask the user to choose the install mode at startup

bold = required   Back   Next   Cancel

- Here, we have to specify an option for setup install mode should run.
- By default, is Administrative install mode.

Step 11: Choose Language for Setup File

Inno Setup Script Wizard   ✕

Setup Languages

Please specify which Setup languages should be included.

Languages:

- ☑ English
- ☐ Armenian
- ☐ Brazilian Portuguese
- ☐ Bulgarian
- ☐ Catalan
- ☐ Corsican
- ☐ Czech
- ☐ Danish
- ☐ Dutch
- ☐ Finnish
- ☐ French
- ☐ German

| Select all |
| Deselect all |

bold = required   Back   Next   Cancel

Step 12: Provide Details of Compiler Settings like Output Folder, Icon for Setup File, Setup File Name, Optional Password

Adding Target Output Folder and Icon
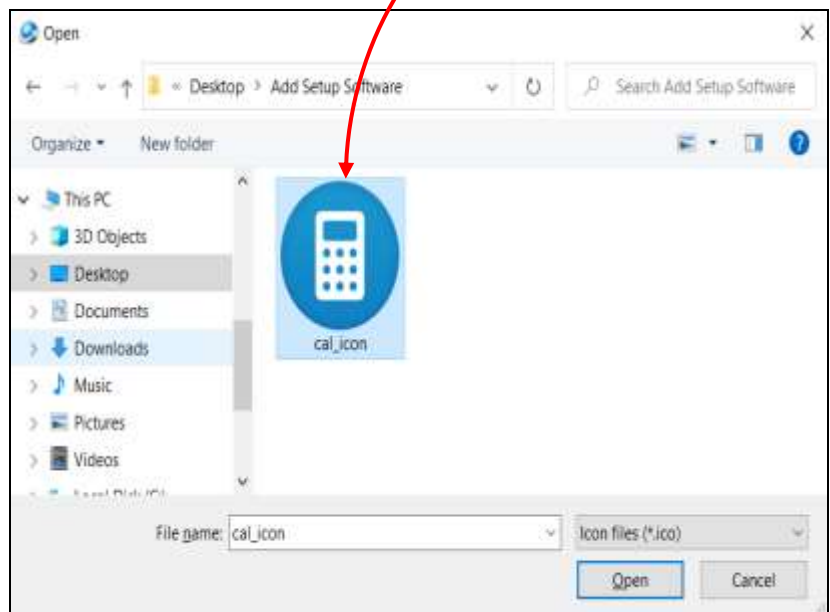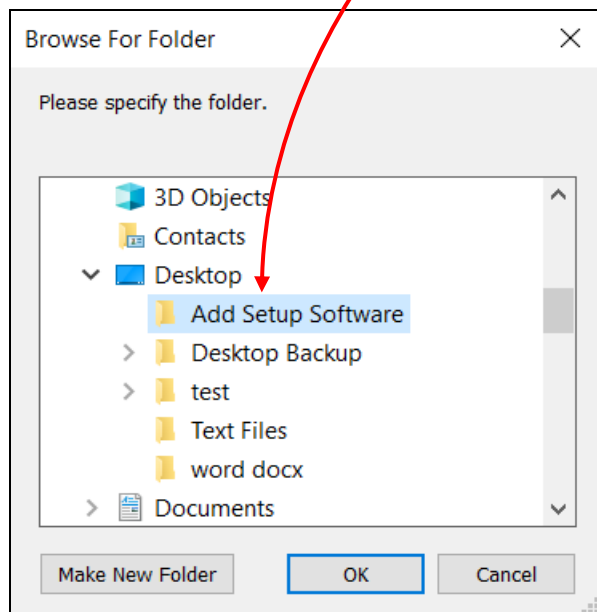
Step 13: Select Optional Inno Setup Preprocessor

Inno Setup Script Wizard   ✕

Inno Setup Preprocessor
Please specify whether Inno Setup Preprocessor should be used.

The Inno Setup Script Wizard can use #define compiler directives to simplify your script.
Although this is not necessary, it will make it easier to manually change the script later.

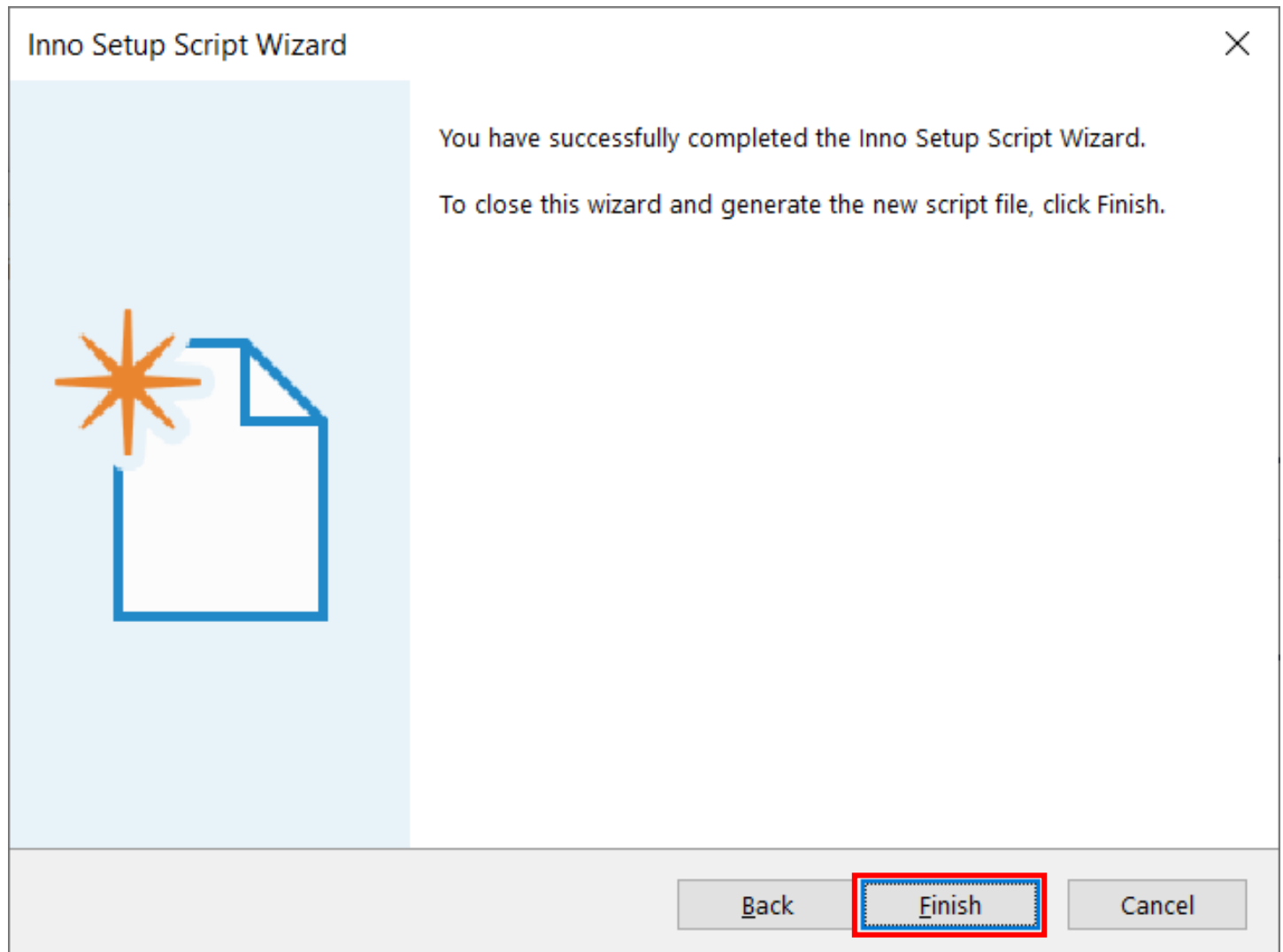Do you want the Inno Setup Script Wizard to use #define compiler directives?

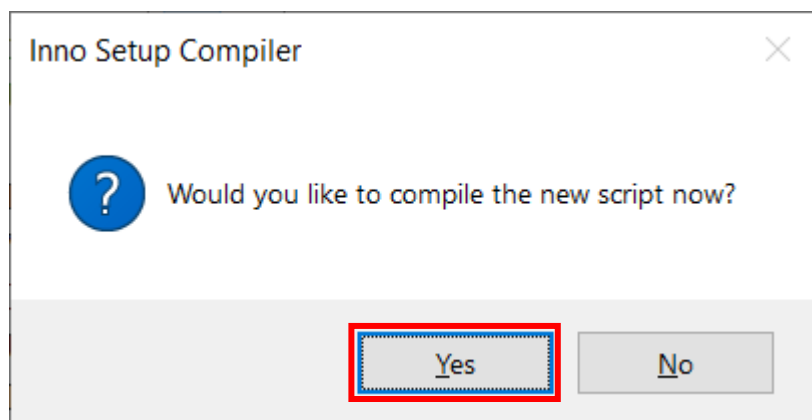☑ Yes, use #define compiler directives

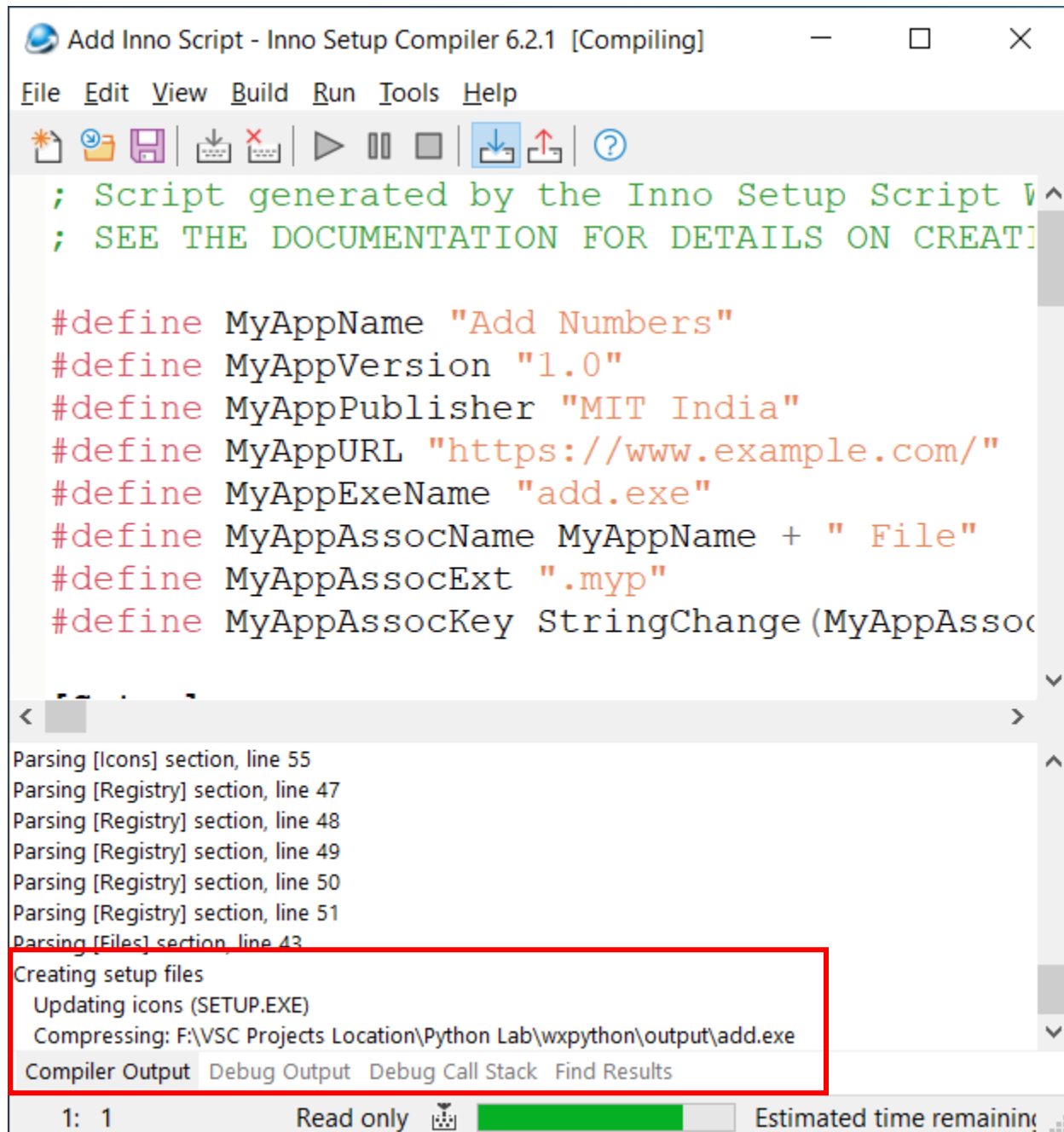Back   Next   Cancel

Step 14: Completed Details

Inno Setup Script Wizard   ✕

You have successfully completed the Inno Setup Script Wizard.

To close this wizard and generate the new script file, click Finish.

Back   Finish   Cancel

Step 15: Click **Yes to run the new script file**

Inno Setup Compiler   ✕

? Would you like to compile the new script now?

Yes   No

Progress for running setup script file

FINISHED STATUS

Add Inno Script - Inno Setup Compiler 6.2.1   — ☐ ✕

File Edit View Build Run Tools Help

Main Script Preprocessor Output

```
▫ Root:  HKA;  Subkey:  "Software\Classes\{#MyAppA
▫ Root:  HKA;  Subkey:  "Software\Classes\{#MyAppA
▫ Root:  HKA;  Subkey:  "Software\Classes\{#MyAppA
▫ Root:  HKA;  Subkey:  "Software\Classes\{#MyAppA
▫ Root:  HKA;  Subkey:  "Software\Classes\Applicat

  [Icons]
▫ Name:  "{autoprograms}\{#MyAppName}";  Filename
▫ Name:  "{autodesktop}\{#MyAppName}";  Filename:
```

Parsing [Registry] section, line 50
Parsing [Registry] section, line 51
Parsing [Files] section, line 43
Creating setup files
  Updating icons (SETUP.EXE)
  Compressing: F:\VSC Projects Location\Python Lab\wxpython\output\add.exe
  Compressing Setup program executable
  Updating version info (SETUP.EXE)

*** Finished. [11:28:13 AM, 00:04.719 elapsed]
Compiler Output Debug Output Debug Call Stack Find Results

  1: 1   Insert

VERIFICATION OF NEWLY CREATED SETUP SOFTWARE IN TARGET FOLDER

VERIFICATION OF NEWLY CREATED SETUP SOFTWARE IN TARGET FOLDER – (Continue)
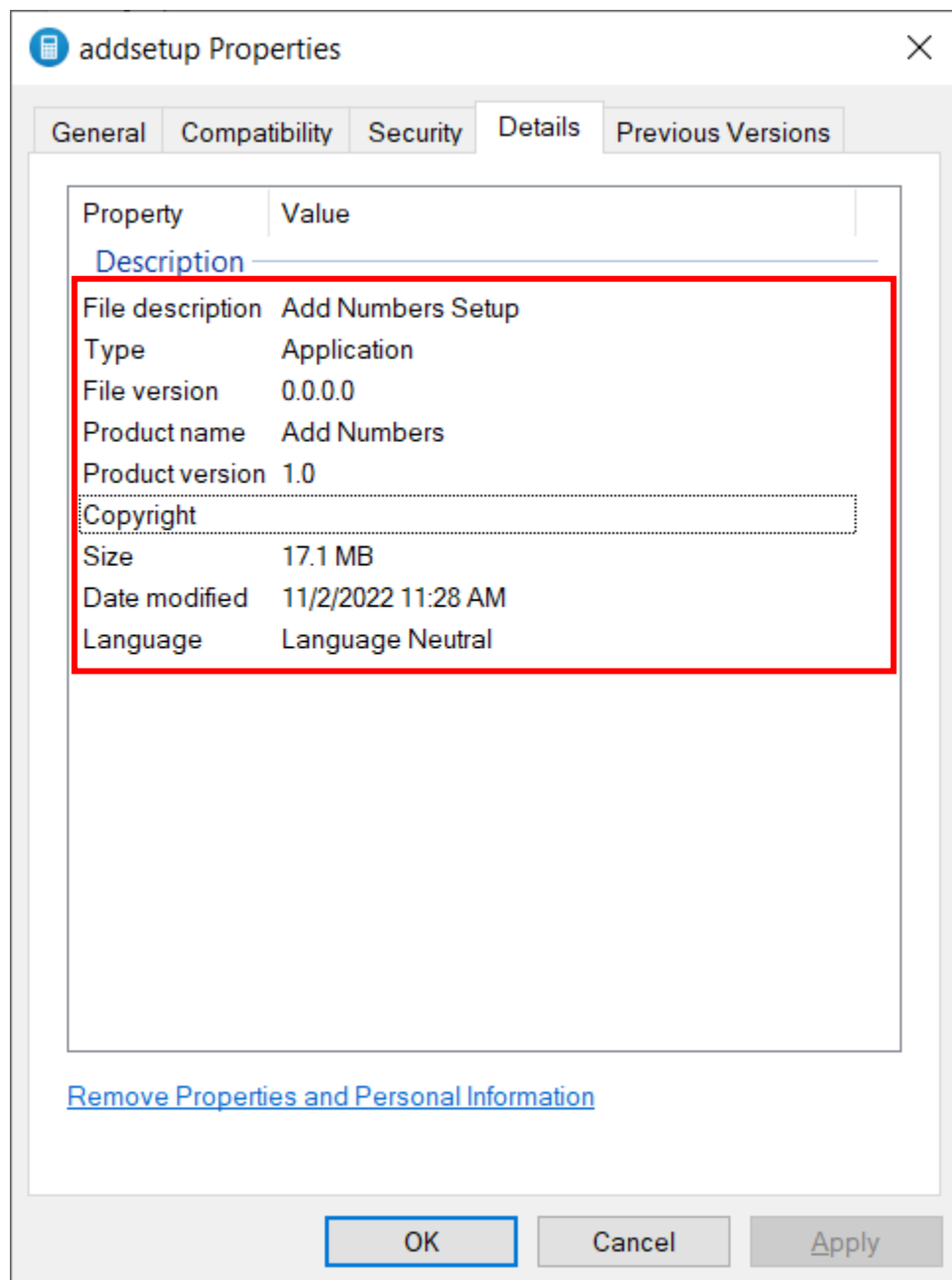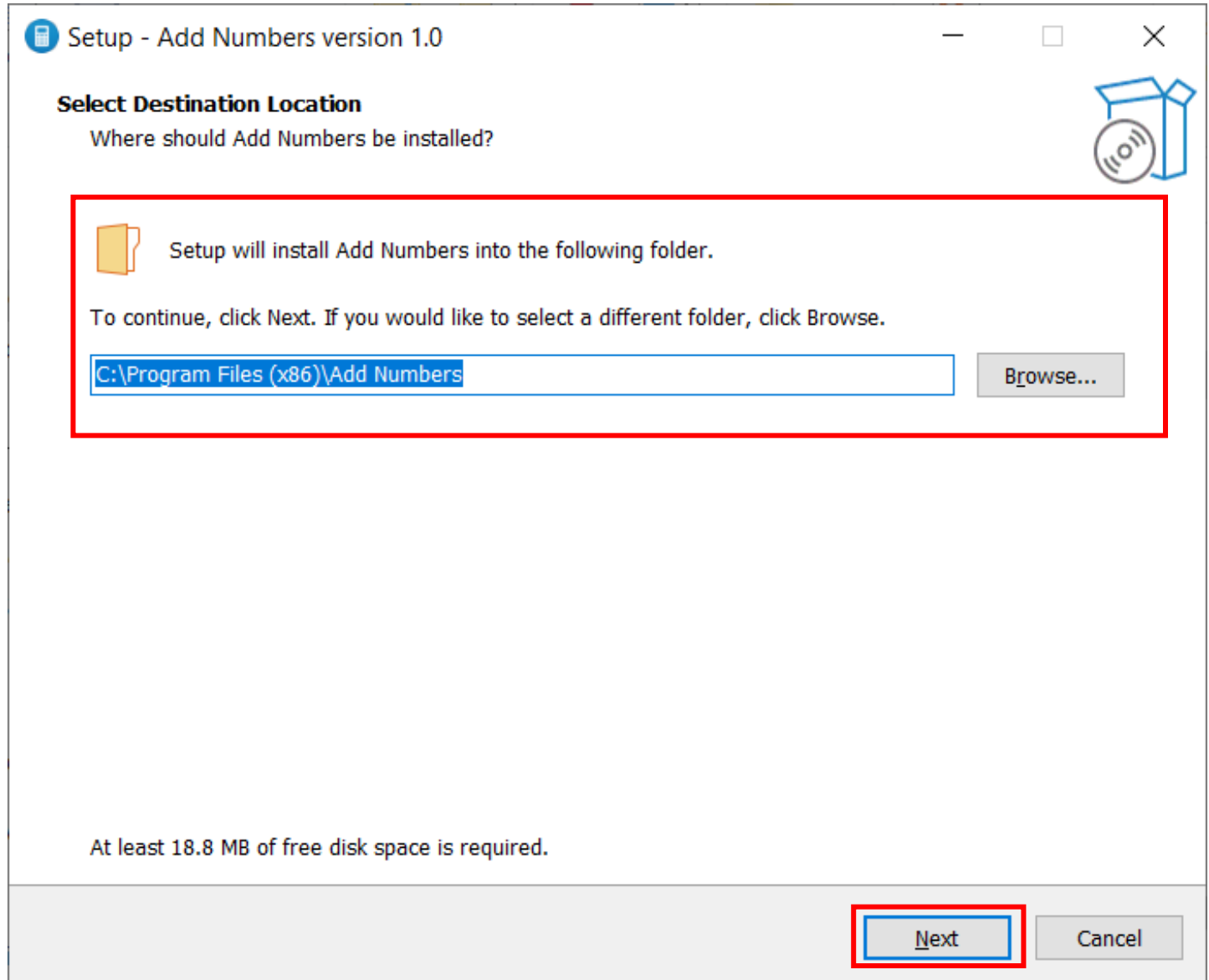
DEPLOYMENT OF NEWLY DEVELOPED SOFTWARE IN WINDOWS

Step 1: Click and Run the Setup Software
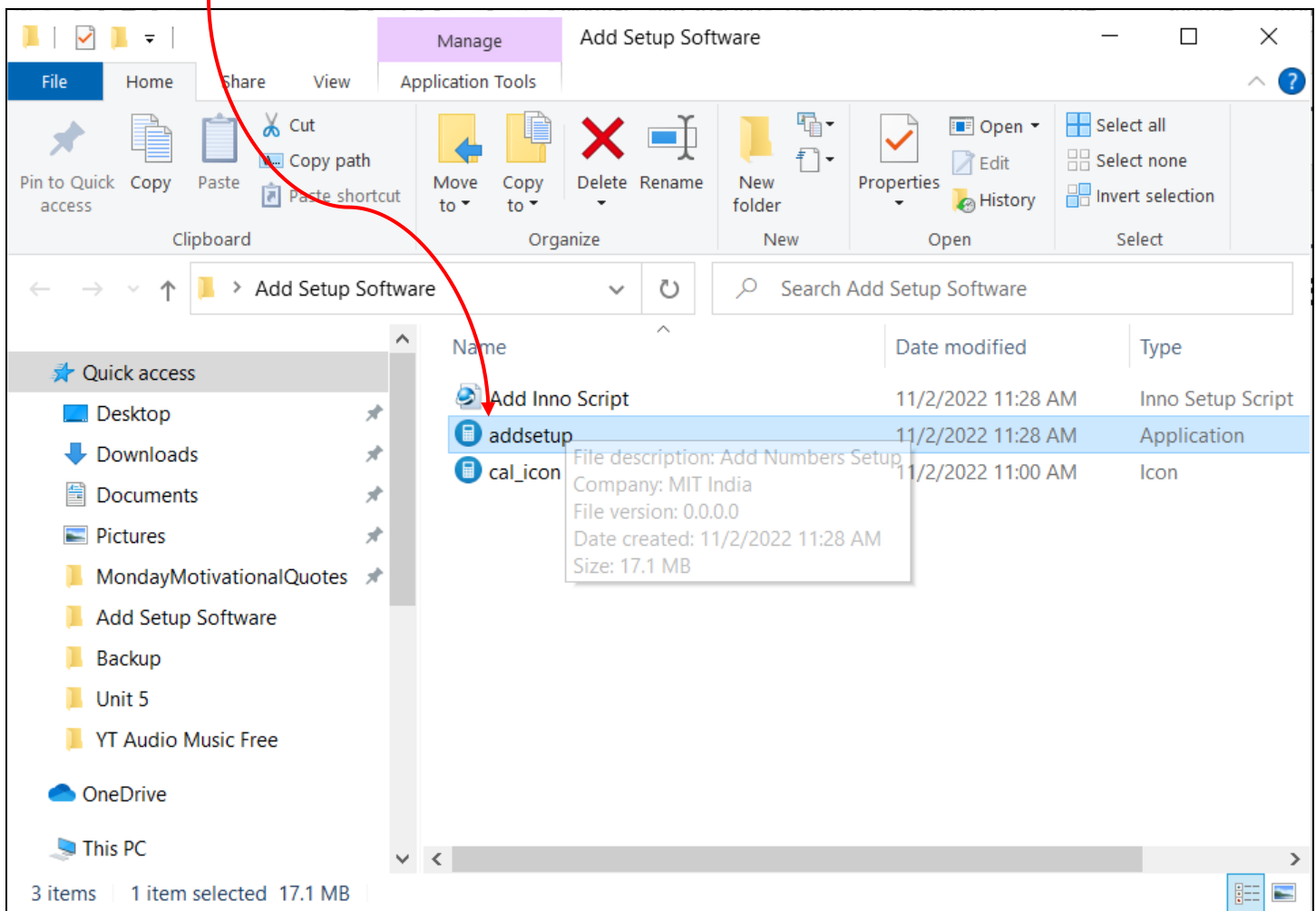
Step 2: Select the Location to Install Real Desktop Software in Windows

```
Setup - Add Numbers version 1.0                                    —    □    ✕

Select Destination Location
Where should Add Numbers be installed?


      📁        Setup will install Add Numbers into the following folder.

          To continue, click Next. If you would like to select a different folder, click Browse.

          C:\Program Files (x86)\Add Numbers                        Browse...







At least 18.8 MB of free disk space is required.

                                                        Next          Cancel
```

Step 3: Selection of Additional Tasks

Setup - Add Numbers version 1.0   —   □   ✕

Select Additional Tasks
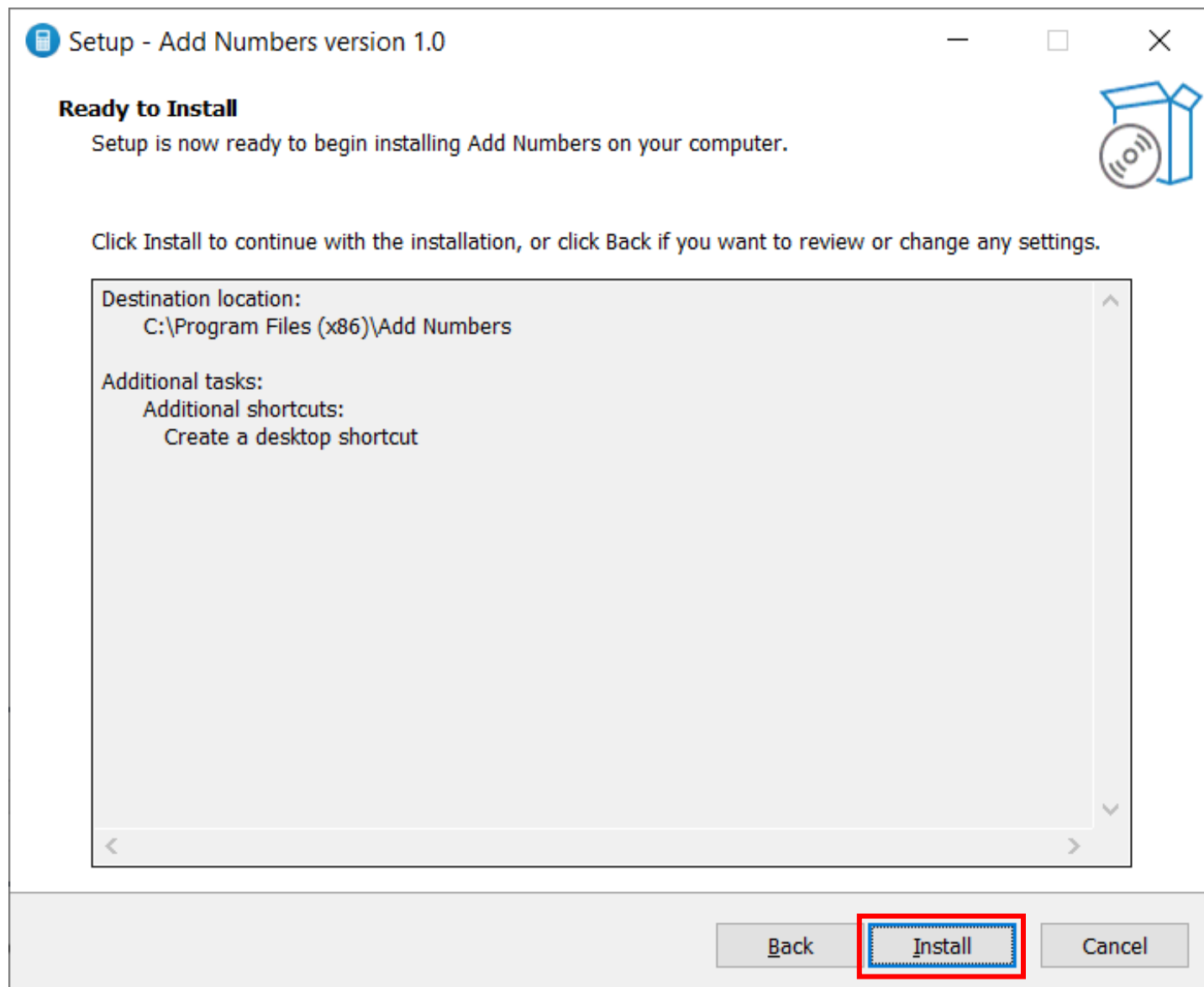Which additional tasks should be performed?

Select the additional tasks you would like Setup to perform while installing Add Numbers, then click Next.
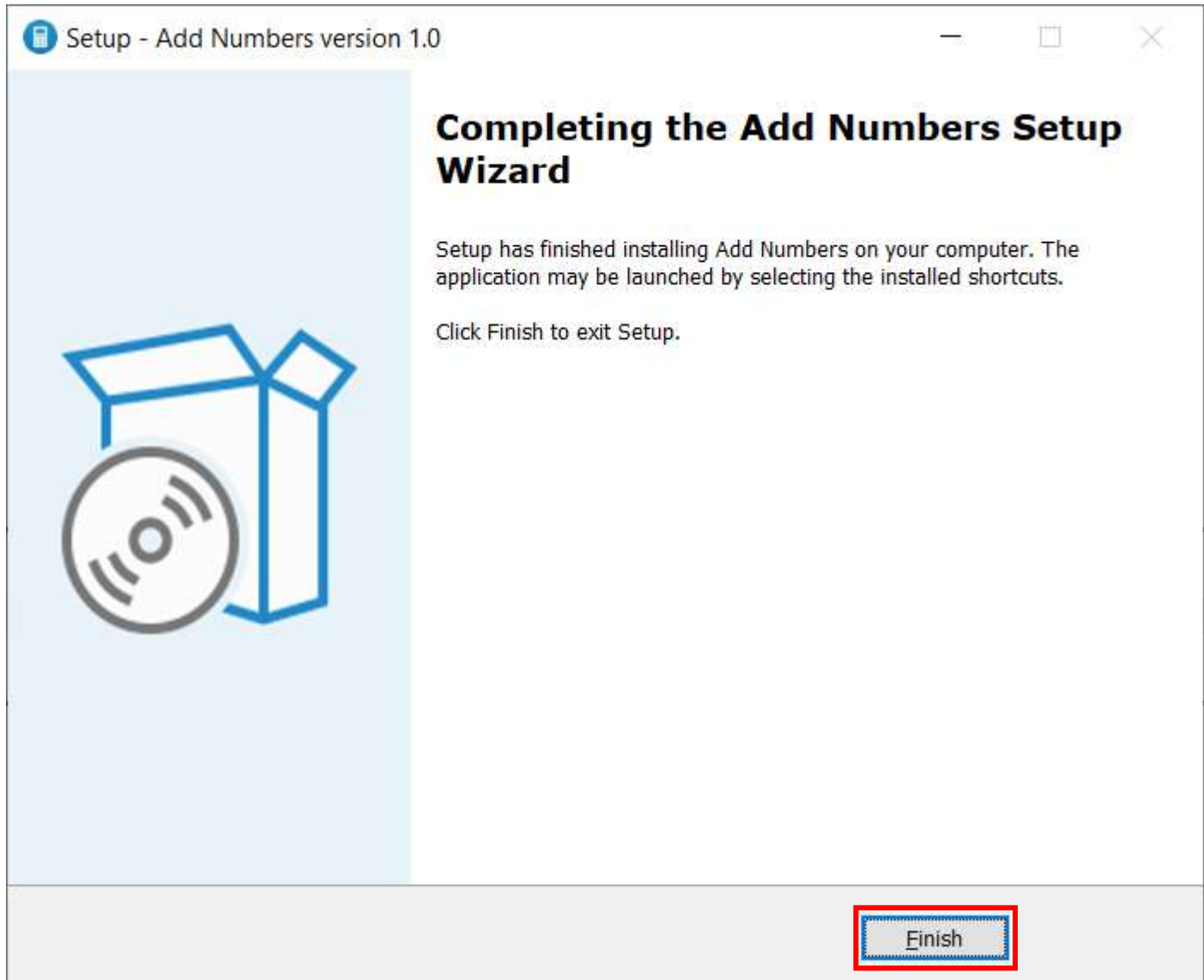
Additional shortcuts:

☑ Create a desktop shortcut
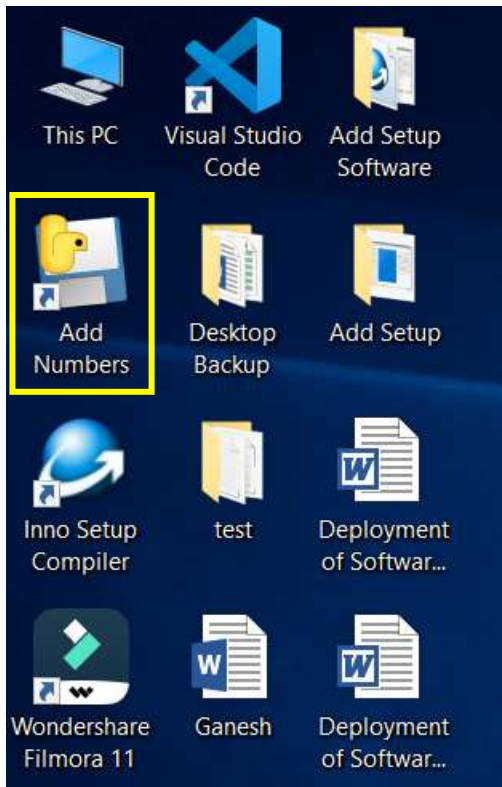
Back   Next   Cancel

Step 4: Ready for Installing Software
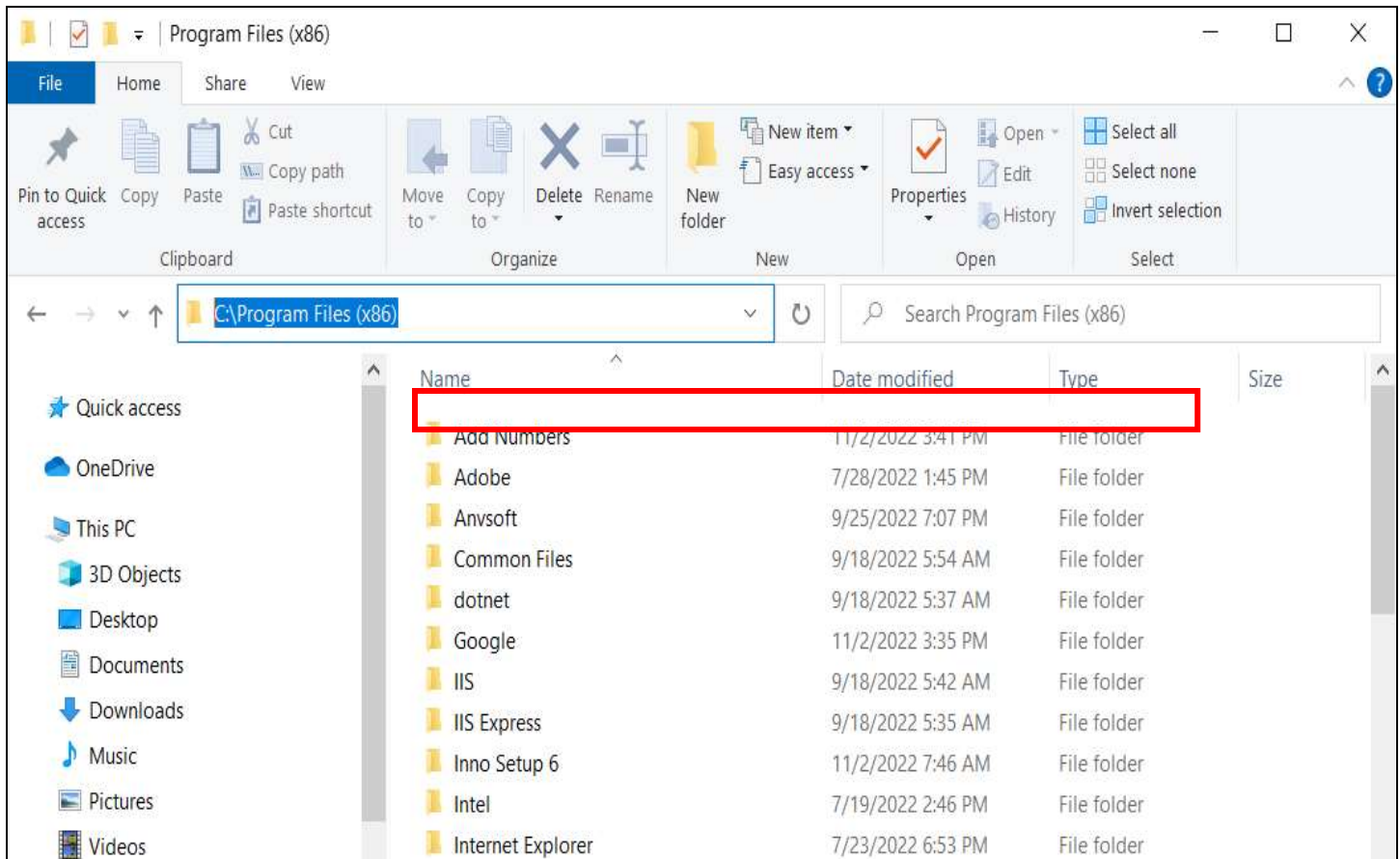
Step 5: Completion Status
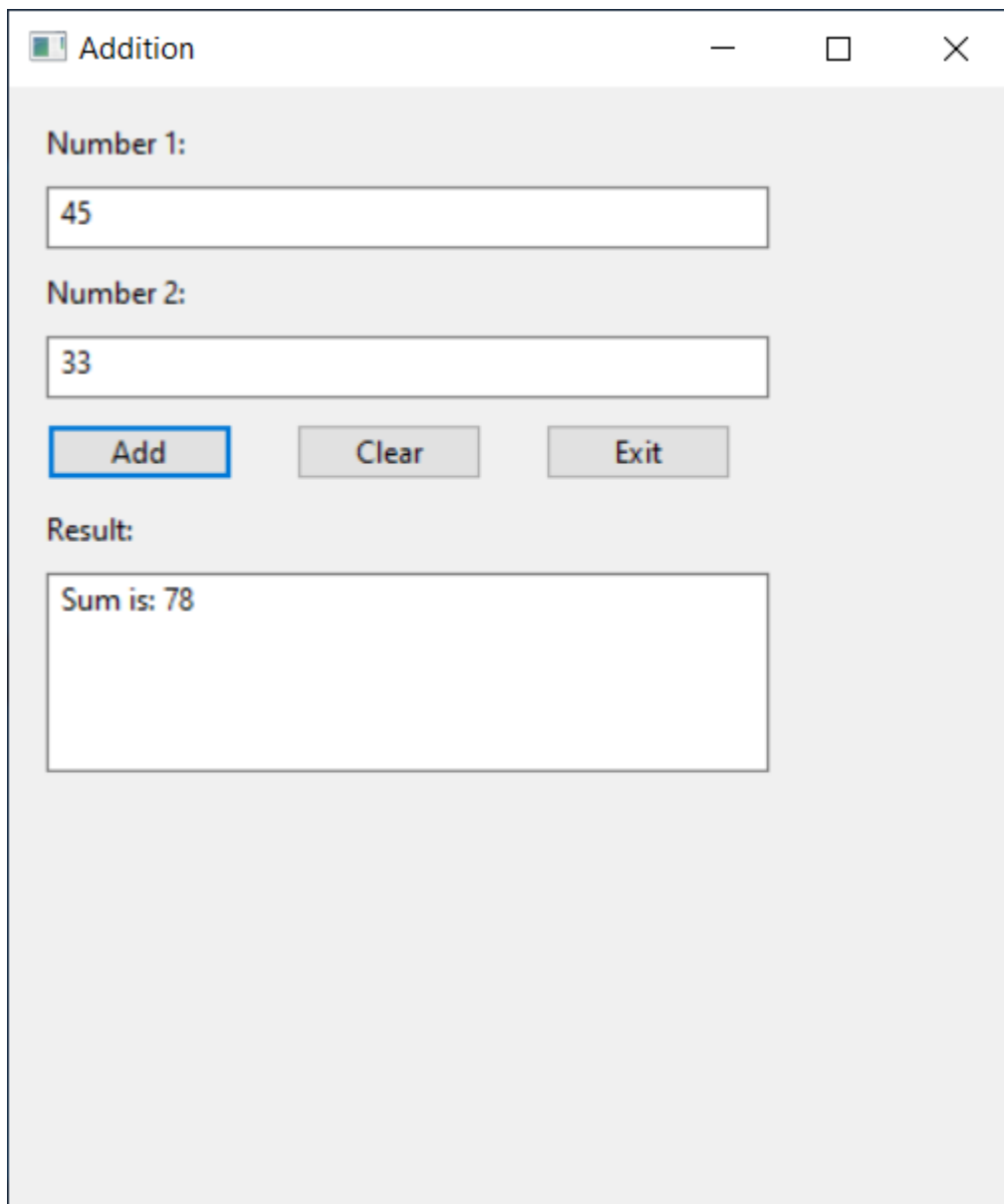
Verification of Software in Desktop

Verification of Software in Program and Features of Control Panel

Audacity 3.1.3	Audacity Team	8/27/2022	87.8 MB	3.1.3
Apache NetBeans IDE 14	Apache NetBeans	7/20/2022		14
Android Studio	Google LLC	7/23/2022		2021.2
Adobe Photoshop 2022	Adobe Inc.	7/28/2022	3.71 GB	23.1.0.143
Adobe Acrobat (64-bit)	Adobe	10/25/2022	541 MB	22.003.20263
Add Numbers version 1.0	MIT India	11/2/2022	18.7 MB	1.0
ActivePresenter	Atomi Systems, Inc.	7/19/2022	193 MB	8.5.7

Verification of Software in C/Program Files (x86)

Running Newly Created Desktop Software

Addition — □ ✕

Number 1:

45

Number 2:

33

[Add]   [Clear]   [Exit]

Result:

Sum is: 78