**Deployment process**

1. **Copy the Main File**:
   1. Copy the main zip file to a new folder and extract its contents.
2. **Install Required Libraries**:
   1. Ensure that all libraries mentioned in the files are installed on your system.
3. **Edit Files**:
   1. Open the files read\_final.pyx, write\_final.pyx, and alarm\_final.pyx.
   2. Look for sections marked as "TODO" and complete those tasks.
4. **Use VSCode Terminal**:
   1. Open the terminal in VSCode by expanding it from the bottom.
   2. Make sure you’re in the same folder as the files you’re working with. Use cd ./folder name to go into a folder, and cd.. to go back.
5. **Build Extensions**:
   1. Run the following command in the terminal:

**python setup.py build\_ext --inplace**

* 1. This command will create additional files in your folder.

1. **Rename Files**:
   1. Rename the files read\_final.pyx, write\_final.pyx, and alarm\_final.pyx to read\_final\_main.pyx, write\_final\_main.pyx, and alarm\_final\_main.pyx.
2. **Create the Executable**:
   1. Run the following command in the terminal to create an executable file (exe): pyinstaller --onefile --console --hidden-import=concurrent.futures --hidden-import=pyrebase --hidden-import=read\_final --hidden-import=write\_final --hidden-import=alarm\_final --add-data="C:\\Users\\LokeshChaudhari\\AppData\\Local\\Programs\\Python\\Python313\\Lib\\site-packages\\pycomm3;pycomm3" main.py

*Note -*

* --console – will create an exe with console
* --noconsole – will create an exe without console
  1. This will generate the executable file.

1. **Rename the Executable**:
   1. Rename the generated executable file to "windows".
2. **Copy Files to Target PC**:
   1. Copy the "windows" executable file, nssm.exe, and restart.bat from the zip to C:\Program Files\Google\Chrome\ on the destination computer.
3. **Open Command Prompt as Administrator**:
   1. Open the Command Prompt with administrative rights.
   2. Run these commands: cd "C:\Program Files\Google\Chrome\"  
      nssm install windows
   3. This will open a window where you can select the executable file.
4. **Set up the Service**:
   1. In the window that opens, select the "windows" executable file.
   2. Click "Install service" to create a service for the executable.
5. **Install System Scheduler**:
   1. Install the "System Scheduler" from the zip file on the destination computer.
6. **Configure a Restart Event**:
   1. Open the "System Scheduler" application.
   2. Go to the "Event" tab and click the green plus icon.
   3. Add a title, e.g., "restart".
   4. Choose the restart.bat file in the "Application" section.
   5. Go to the "Schedule" tab.
   6. Set the schedule type to "Every hour/selected minutes".
   7. Choose "On the hour" and select "00" for minutes.
   8. Save and close the application.
7. **Start the Service**:
   1. Open "Services" on your computer and find the service called "windows".
   2. Start the service.