

Project Structure Overview:

YourProject/

|

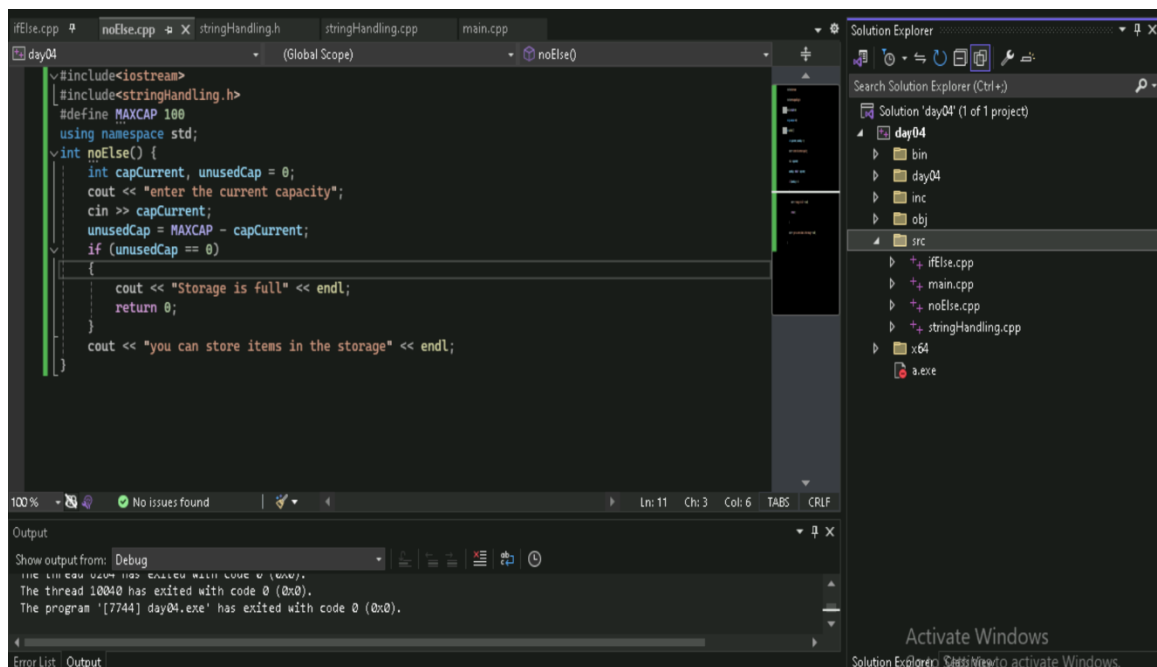
|— src/ → Source files (.cpp)

|— inc/ → Header files (.h or .hpp)

|— obj/ → Compiled object files (.o)

|— bin/ → Final binary/executable

|— Makefile → (optional) Automate the build process



STEP-BY-STEP PROCESS OF ORGANIZING A C++ PROJECT IN VISUAL STUDIO:

Step 1: Create a New Project

1. Open Visual Studio.
2. Go to File>New>Project.
3. Select Console App(C++).
4. Give your project a name(eg:Day04)
5. Click Create.

Step 2: Set Up Project Folder structure

a) In Solution Explorer:

Right click on the project > Add > New folder

- Add: src,inc

b) In File Explorer:

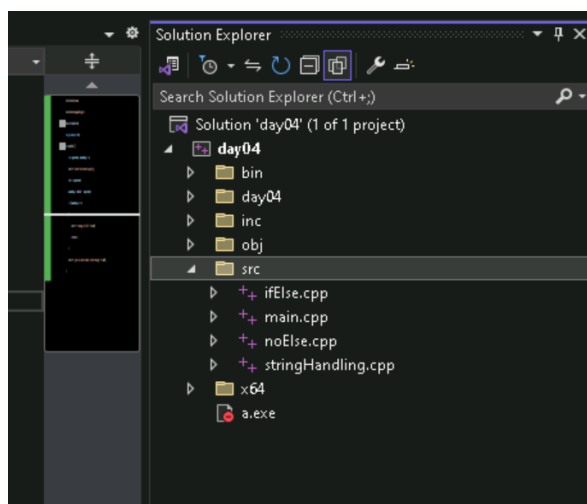
Navigate to your project folder.

Manually create these folders:

- src – for .cpp files
- inc – for .h files
- obj – will be used by the compiler
- bin – for the final .exe or executable output

Step 3: Add and Move files

- Move the existing main.cpp to the src folder.



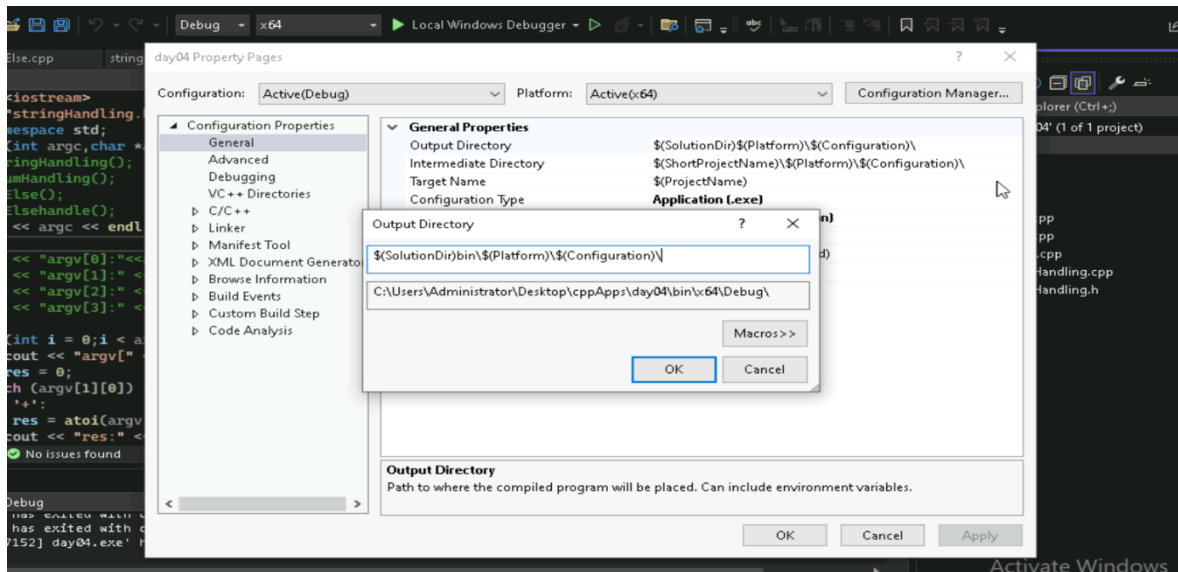
- Create addition files:
- In inc: Right click the inc folder > Add > New item>header file(e.g., calculator.h)
- In src: Right click the src folder> Add > New item> C++ file(e.g., calculator.cpp)

Step 4: Write and Include Code

Step 5: Set output Folders for bin ,obj and inc.

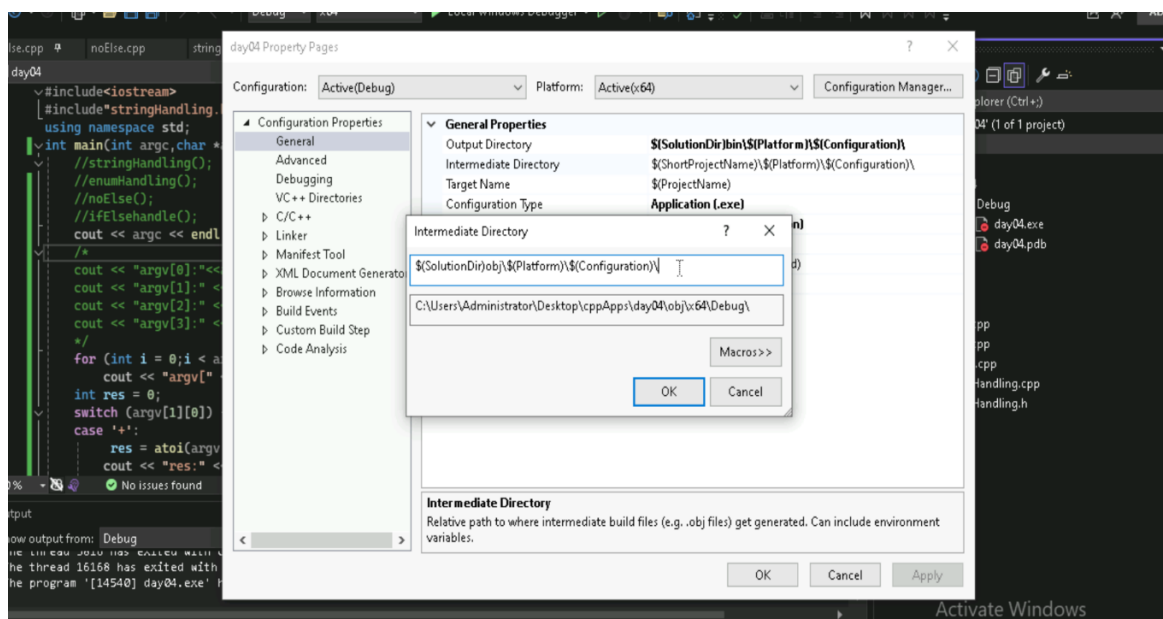
- 1) Right click your project > properties.
- 2) Under Configuration properties> General:

- Output Directory – set to $\$(SolutionDir)bin\$(Configuration)\$



Click OK< Apply< OK

- Intermediate directory – set to $\$(SolutionDir)obj\$(Platform)\$(Configuration)\$

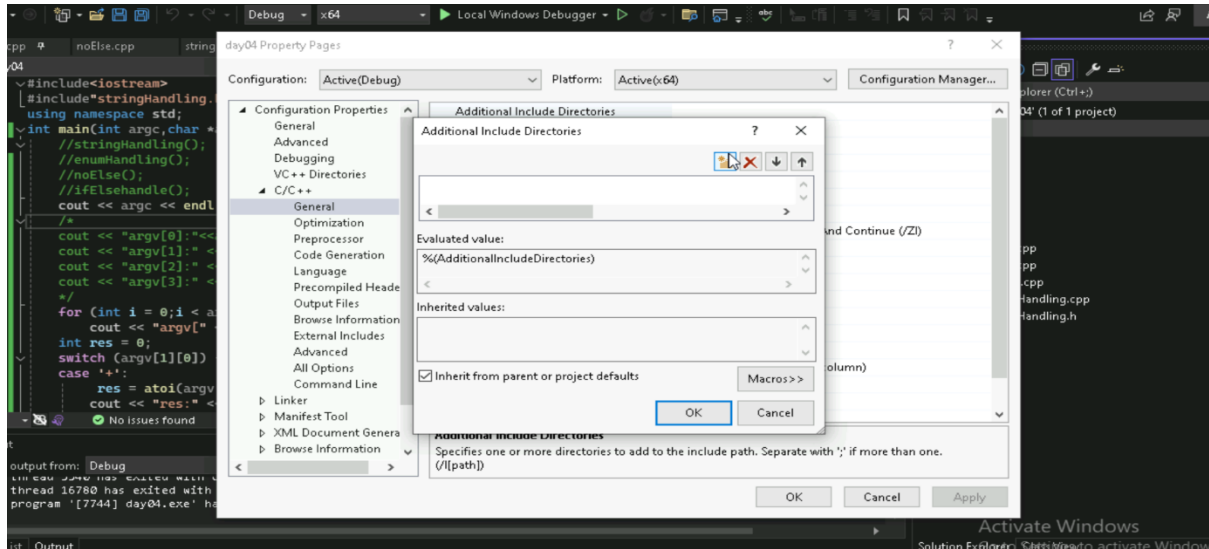


Click OK< Apply< OK.

These tell Visual Studio where to save the compiled .exe(in bin) and object files(in obj).

3) Under Configuration properties> C/C++>General:

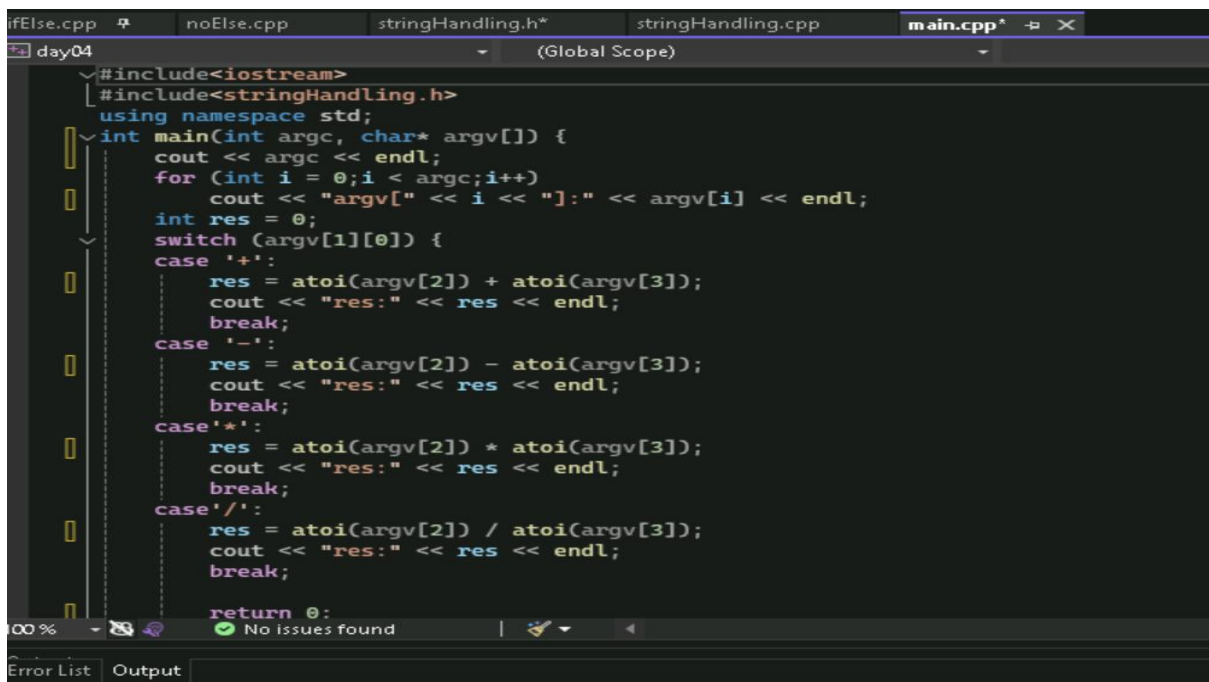
- Additional Include Directories > Edit...>Add the inc folder path



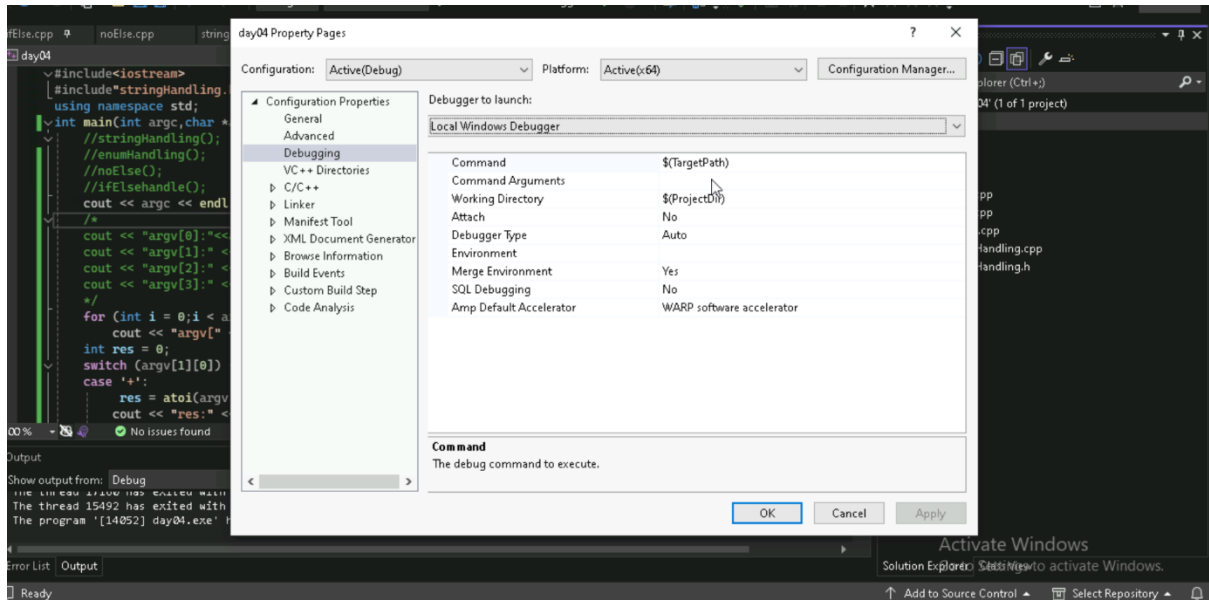
Click OK< Apply< OK

Step 6: Build and Run

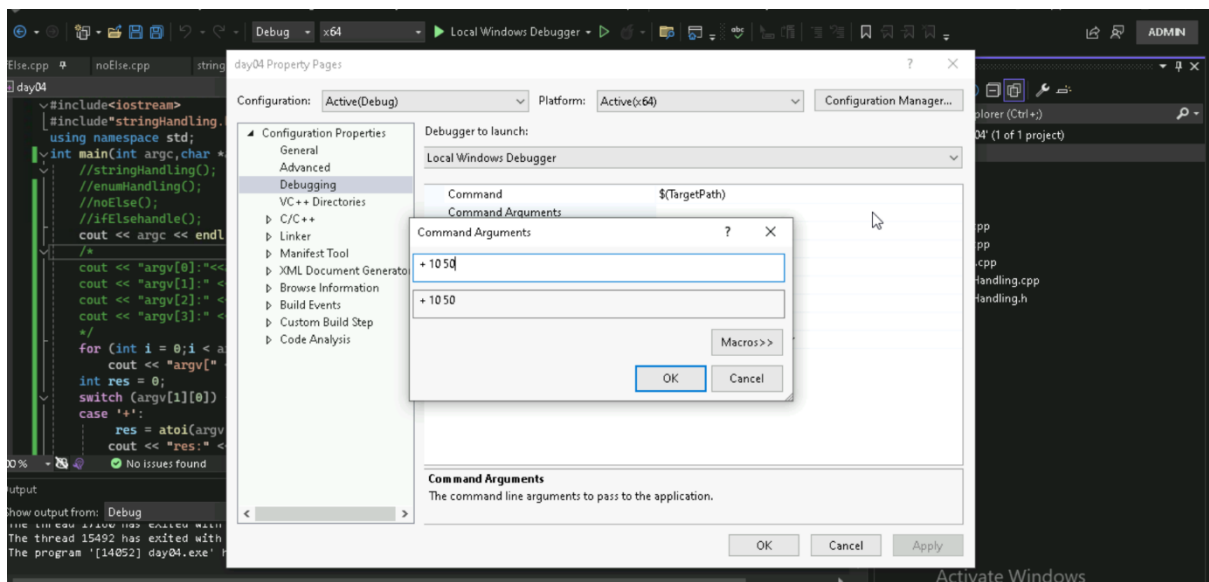
// A C++ program in Visual Studio using command line input



- 1) Right-Click your project > properties.
- 2) Under Configuration properties> Debugging:
 - Command Arguments>edit..



- Add command Arguments (e.g. + 10 50)



Click OK< Apply< OK

Output:

```
Microsoft Visual Studio Debug Console
C:\Users\Administrator\Desktop\cppApps\day04\x64\Debug\day04.exe
argv[0]:C:\Users\Administrator\Desktop\cppApps\day04\x64\Debug\day04.exe
argv[1]:+
argv[2]:10
argv[3]:50
res:60
C:\Users\Administrator\Desktop\cppApps\day04\x64\Debug\day04.exe (process 17152) exited
To automatically close the console when debugging stops, enable Tools->Options->Debugging
Press any key to close this window . . .
```

Another method:

- Directly from the command prompt after giving “a.exe” command we can give inputs.

```
Administrator: C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.5737]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Administrator\Desktop\cppApps\day04\src>g++ main.cpp
C:\Users\Administrator\Desktop\cppApps\day04\src>a.exe + 30 20
4
argv[0]:a.exe
argv[1]:+
argv[2]:30
argv[3]:20
res:50
C:\Users\Administrator\Desktop\cppApps\day04\src>
```