***Name:***

**Dawood Sarfraz**

**Roll no:**

**20p-0153**

**Section:**

**BSCS-9A**

**Assignment no 4:**

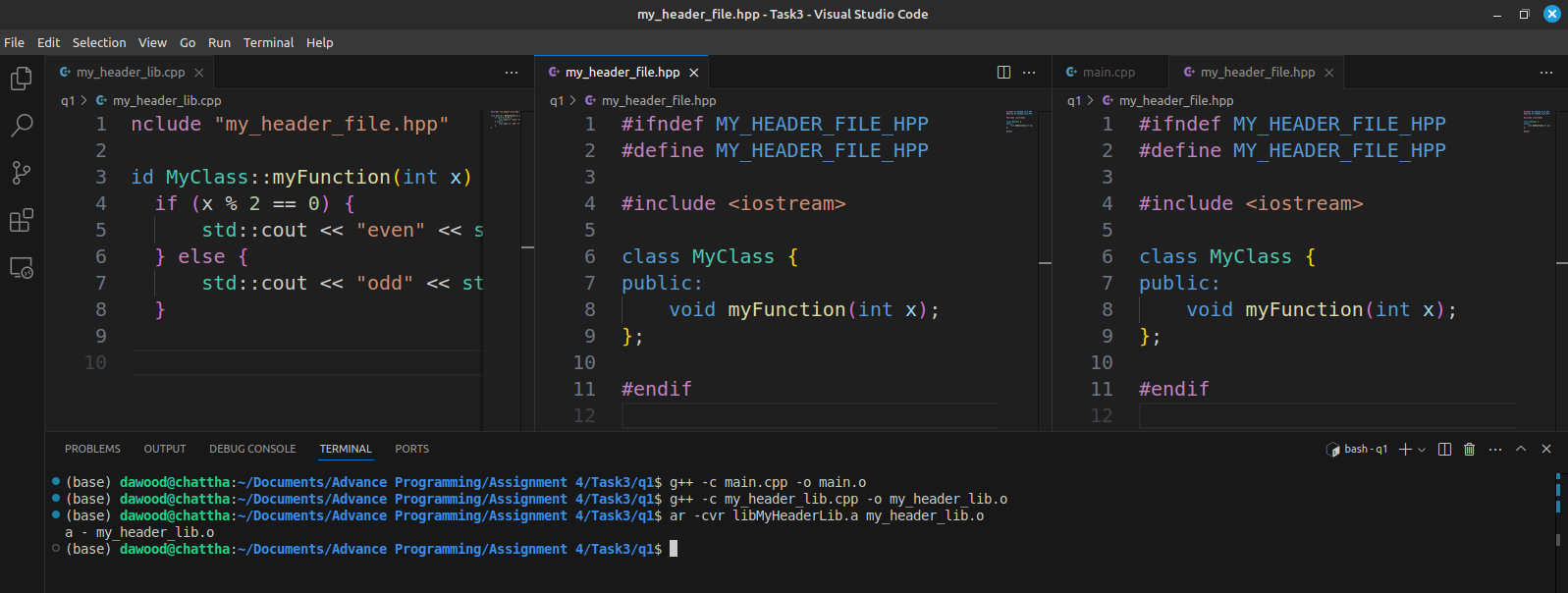
**Build Automation (Pre-Processors)**

**Submitted to:**

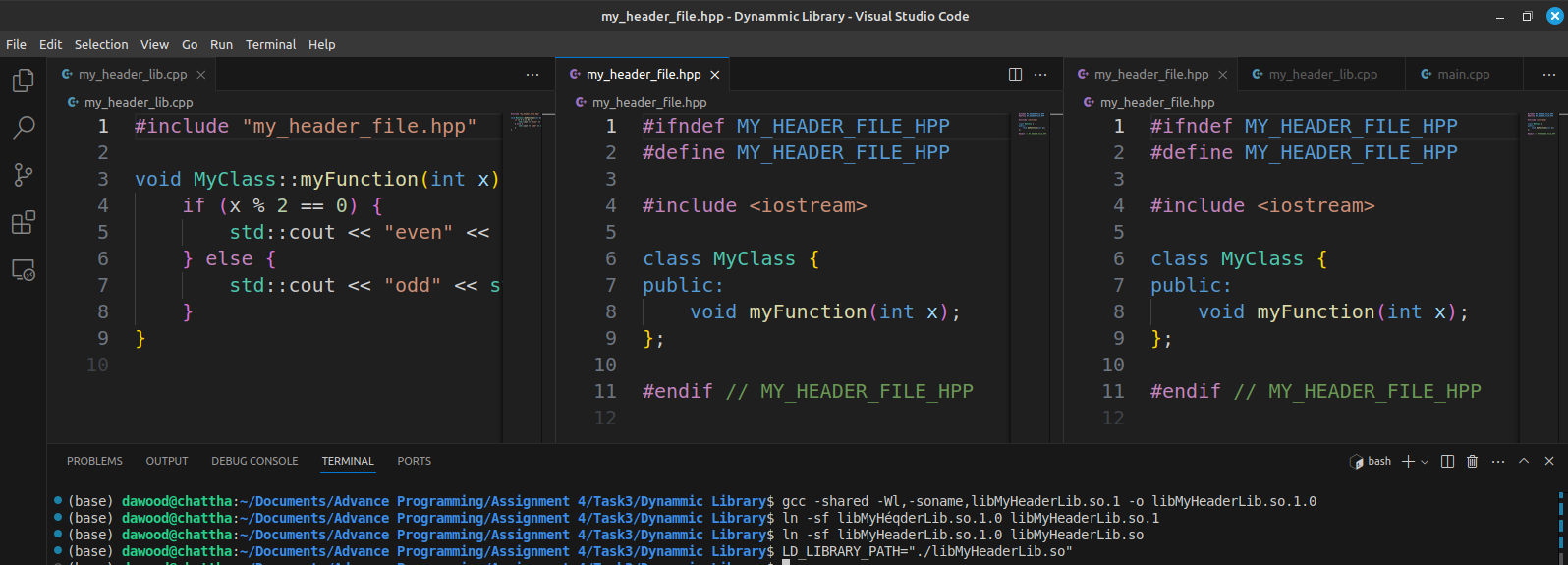
**Dr. Omar Usman Khan**

***Task 3: Converting to Library***

***Static Library:***

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***Dynamic Library:***

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***1. What is the directory structure of your code before and after the***

***library creation.***

***Before library creation:***

├── main.cpp

├── my\_header\_file.hpp

└── my\_header\_lib.cpp

***After library creation:***

├── libMyHeaderLib.a

├── main.cpp

├── my\_header\_file.hpp

├── my\_header\_lib.cpp

└── my\_header\_lib.o

***After dynamic library creation:***

├── libMyHeaderLib.a

├── libMyHeaderLib.so

├── libMyHeaderLib.so.1

├── libMyHeaderLib.so.1.0

├── main.cpp

├── my\_header\_file.hpp

├── my\_header\_lib.cpp

└── my\_header\_lib.o

**2. *What are the CVR arguments?***

CVR Arguments:

● C: Create a new archive.

● V: Verbosely list files processed.

● R: Replace or insert files into the archive.

***3. Run the commands below and report their output:***

***1. readelf -S my\_header\_lib.o***

Lists the section headers of the object file.

***2. readelf -S your\_final\_file***

Lists the section headers of the final executable.