Lesson 1 Notes

- Step 1: Install VS Code (You already have this 4)
- ✓ Step 2: Install a C Compiler

For Windows (you only need to do this once):

Option A: Install MinGW (recommended for most users)

- 1. Download MinGW from: https://sourceforge.net/projects/mingw/
- 2. During installation, check:
 - o mingw32-gcc-g++
 - o mingw32-base
 - o mingw32-gcc-objc
- 3. After install, add the **bin folder** (usually C:\MinGW\bin) to your **System PATH**:
 - Open Start Menu → search "Environment Variables"
 - \circ Edit Path \rightarrow Add new \rightarrow paste the bin path

Step 3: Install C/C++ Extension in VS Code

- 1. Open VS Code
- 2. Go to Extensions (Ctrl + Shift + X)
- 3. Search C/C++ by Microsoft → Install it

🔽 Step 4: Write Your C Program

1. Create a new file: 01_lesson.c

Write this simple program:

```
#include <stdio.h>
int main() {
    printf("Hello World");
    return 0;
}
```

✓ Step 5: Compile & Run

Option 1: Using Terminal (Recommended)

- 1. Open Terminal in VS Code (Ctrl + ``)
- 2. Compile your code:

```
gcc 01_lesson.c -o 01_lesson.exe
```

3. Run your code:

```
./01_lesson.exe
```

✓ Notes: From Lesson 1

- std-> Rfers to standard
- io -> Input and Output
- stdio.h -> h means Header File
- What are header files?

These are library files which contain definitions of functions written by developers of C. For example

- o printf -> Displays output in terminal/console.
- o scanf -> Takes input from the user after you run the code.
- Whatever you write inside the main block is executed first as you run the code.
- Where do we not write semi colons (;)?
 - While including header files (# include <stdio.h>
 - o First line of function (int main() { })
 - o if condition
 - o Loop