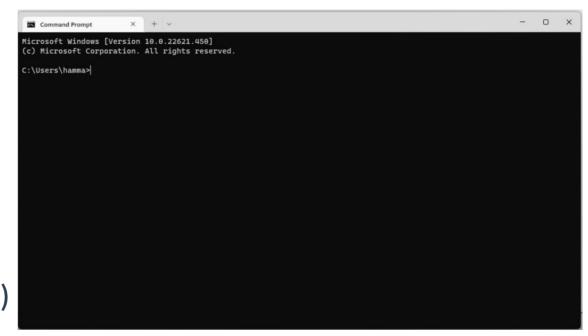
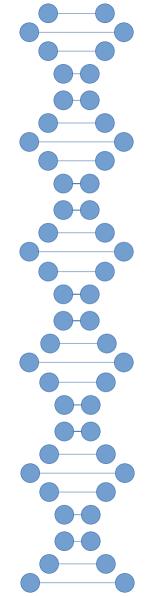
Intro to C++

Get Started with C++ Programming on Windows

Console Programs

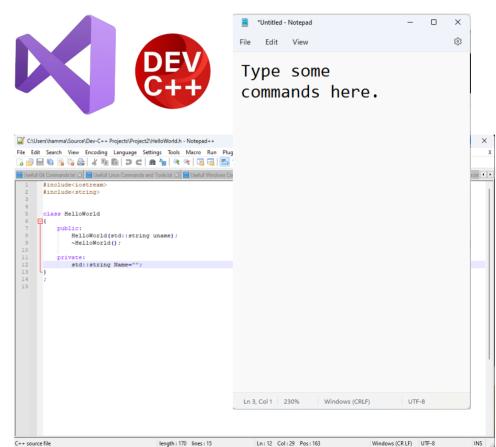
- Command Line (CLI)
- Commands are typed rather than Point-&-Click
- Easy to get started programming for Console
- Later on transition to Graphical User Interface (GUI) programming

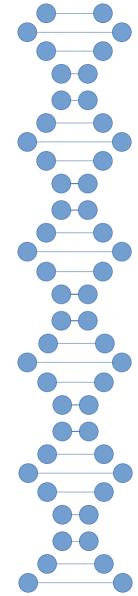




Text Editors and IDE

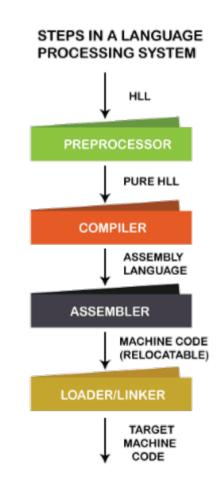
- Need to type the commands
- Editor provides facilities
 - Notepad
 - Wordpad
 - Notepad++
- Integrated Debugging Environment (IDE) is a special purpose editor for Programmers
 - Microsoft Visual Studio
 - Microsoft Code
 - Dev C++
- What is a Compiler?





What is a Compiler?

- Humans like to communicate in Natural Language
- Computers understand Binary.
- Converts High Level Language (HLL) to 1s and 0s (Machine Code).
- Multi-step process usually hidden behind a button click in the IDE.



First C++ Program

- #include directive
- Main method
- Method signature
- Std namespace
- Cout function
- Endl constant
- Return a result

```
#include <iostream>
int main(int argc, char** argv) {
    std::cout << "Hello to the C++ World" << std::endl;
    return 0;
}</pre>
```

2nd C++ Program

- Data Types
 - Int
 - Char
 - String
- Variables
- Arguments/Parameters
 - Formal Parameters/Arguments
 - Actual Parameters/Arguments
- Methods
- Method return data type

```
#include <iostream>
#include <string>
using namespace std;
int main(int argc, char** argv) {
   string your_name = "Alf";
   cout << "Welcome " << your_name << ", I hope you like programming" <<</pre>
endl;
   return 0;
```