SET UP INTEGRATED DEVELOPMENT ENVIRONMENT (IDE) FOR C

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INF1002 – Programming Fundamentals

SET UP IDE

- Windows MS Studio (1)
  - Download and install MS Visual Studio 2022 Community (https://visualstudio.microsoft.com/vs/community/)
  - Create a new solution and an “Empty Project” by giving meaningful names
  - Add a new “C++ File (.cpp)” in the “Source Files” folder
  - Right click the new file and rename it to “.c”
  - Right click the project and select “Build”
  - Go to the “Debug” folder of the solution and find the “.exe”

SET UP IDE

- Windows MS Studio (2)
  - Download and install MS Visual Studio 2022 Community (https://visualstudio.microsoft.com/vs/community/)
  - In the search box on the taskbar of your Windows OS, type “developer command prompt” and choose “Developer Command Prompt for Visual Studio”
    - Change directory to the folder containing your C files
    - Type “cl filename.c”
    - An “exe” and an “obj” file will be generated
  - Open “cmd” window and go to the exe folder and type the name of the exe file

SET UP IDE

- MacOS
  - Download and install Xcode from https://developer.apple.com/xcode/
  - See http://help.apple.com/xcode/mac/ for tutorials

- LINUX
  - Most Linux have GNU C Compiler (gcc) installed already
  - To compile a program called *hello.c* from the command line, execute
    - gcc –o hello hello.c

SET UP IDE

Open source and cross-platform IDE: Code::Blocks

- Downloadable from:
  - http://www.codeblocks.org/downloads
- Tutorials on Mac OS installation
  - https://www.youtube.com/watch?v=_bKLttPVoC8
- Tutorials on Windows OS installation
  - https://www.youtube.com/watch?v=lQlTENvMilE
  - Remember to choose codeblocks-17.12mingw-setup.exe
- Tutorials on Linux OS installation
  - https://www.youtube.com/watch?v=xoK5JCtNH5A

A SIMPLE C PROGRAMME

- To test your IDE, you may copy and paste the following codes and then compile and run it in your IDE.

```
/*
 * A simple C program.
 */
#include <stdio.h>

int main() {

        printf("Hello world!/n");

        return 0;

}
```

```
Hello world!

Process returned 0 (0x0)   execution time : 0.032 s
Press any key to continue.
```

Result from Code Blocks