# Setting up Eclipse for ARM Cortex M processor based MCUs -Summary

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1. Download Eclipse for C/C++ Developers

2. Download Cross-Toolchain for ARM Cortex Processor
https://launchpad.net/gcc-arm-embedded

3. Install GNU ARM Eclipse Plugins
https://github.com/gnu-mcu-eclipse/

4.windows build tools installation ( Only for windows OS)
make, rm, mkdir,

5. Download and install OpenOCD

6. Eclipse project creation AND compilation for ARM Cortex M processor based MCU. (blinky application)

7. Understand the project directory structure.

8. Download CMSIS-CORE

9. Download and populate(in Eclipse project) MCU Peripheral Drivers from the silicon vendor.

10. Eclipse project settings for your microcontroller
example : if your MCU is based on STM32F406xx family then define "STM32F446xx" as the preprocessor directive.

11) compile the eclipse project and it must be successful ..

12) Download the code in to target hardware and debug.
   a) openocd intergration
   b) making a debug configuration for our project.