MCU Programming Additional Project Setup

10/02/2021

1. Additional programming files added to the compile path:
   1. Add additional directories under   
      Project Properties -> Toolchain -> ARM/GNU Assembler -> General
2. Floating point input and output support:
   1. Add “printf=iprintf” and “scanf=iscanf” in   
      *Project Properties -> Toolchain -> ARM/GNU C Compiler -> Symbols -> Defined Symbols (-D)*
   2. Add “-u \_printf\_float” in   
      *Project Properties -> Toolchain -> ARM/GNU Linker -> Miscellaneous -> Other objects*
   3. Note that printf and scanf are using the embedded debugger connected over USART1
3. Set CMSIS Pack to slightly older version to support math.h
   1. Select version 5.3.0 in   
      *Project Properties -> Packs*
4. Add libraries and library path
   1. Add “libarm\_cortexM7l\_math.a” to   
      *Project Properties -> Toolchain -> ARM/GNU Linker -> Libraries -> Libraries*
   2. Add “../../Lib” to   
      *Project Properties -> Toolchain -> ARM/GNU Linker -> Libraries -> Library search path*