ARM Project #3

- 1. Start from the example project titled "SysTick"
 - a. Connect your STM32 Value Line Discovery Evaluation Board
 - b. Load the project into the MDK-ARM IDE.
 - c. Start by reading the "readme.txt" file to know the purpose of the project.
 - d. Compile and load the project into your STM32 Value Line Discovery Evaluation Board and verify that it works as described in the "readme.txt" file.
- 2. Trace and find the part of the project that initializes the SysTick duration and perform an experiment to measure its actual value using a logic analyzer or a digital oscilloscope.
- 3. Modify the code such to disable the SysTick interrupt and design an experiment to verify that.
- 4. Start from the example project titled "EXTI"
 - a. Connect your STM32 Value Line Discovery Evaluation Board
 - b. Load the project into the MDK-ARM IDE.
 - c. Start by reading the "readme.txt" file to know the purpose of the project.
 - d. Compile and load the project into your STM32 Value Line Discovery Evaluation Board and verify that it works as described in the "readme.txt" file.
 - e. Mask the interrupt line connected to the User Button and verify that no interrupts are generated as before.
- 5. Modify the code in such a way to allow the time in between User Button presses is measured and stored in a user variable called DeltaTime in units of SysTick. Place a break point in your program and verify that what your program measures is accurate.