

Q1.Can we do nested IF-Then else in CORTEX –M4 ?

Ans:No. We cannot do nested if-else in cortex M4. The following error shows up: "No, this instruction inside IT block has unpredictable results".

Q2.On your Hardware board STM32 , find out how you can input a number either through key board or through some kind of sensor and decide whether that is even or ODD.

Ans: Yes ,we can do through keyboard.

As a part of hardware debug system, cortex M4 provides an Instrumentation Trace Unit(ITM).This can be thought of as a debug UART that is connected to a console window in the debugger. By adding debug hooks into your code, it is possible to read and write data to the debugger while the code is running.

Steps to do it:

- Connect the discovery board to the PC via its USB debug port.
- Open the exercise in CMSIS core debug, which configures the instrumentation trace and then reads and writes characters from the instrumentation port.
- Build the project and start the debugger.
- Open the view\serial windows\Debug(printf) viewer window.
- Start running the code.As the code runs, it will send characters to the debug viewer.