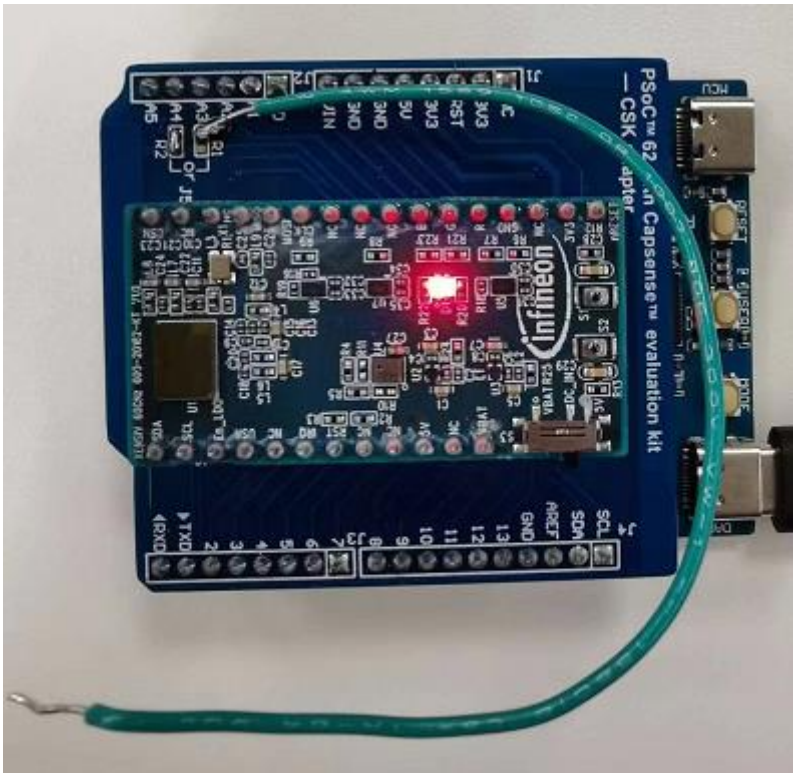
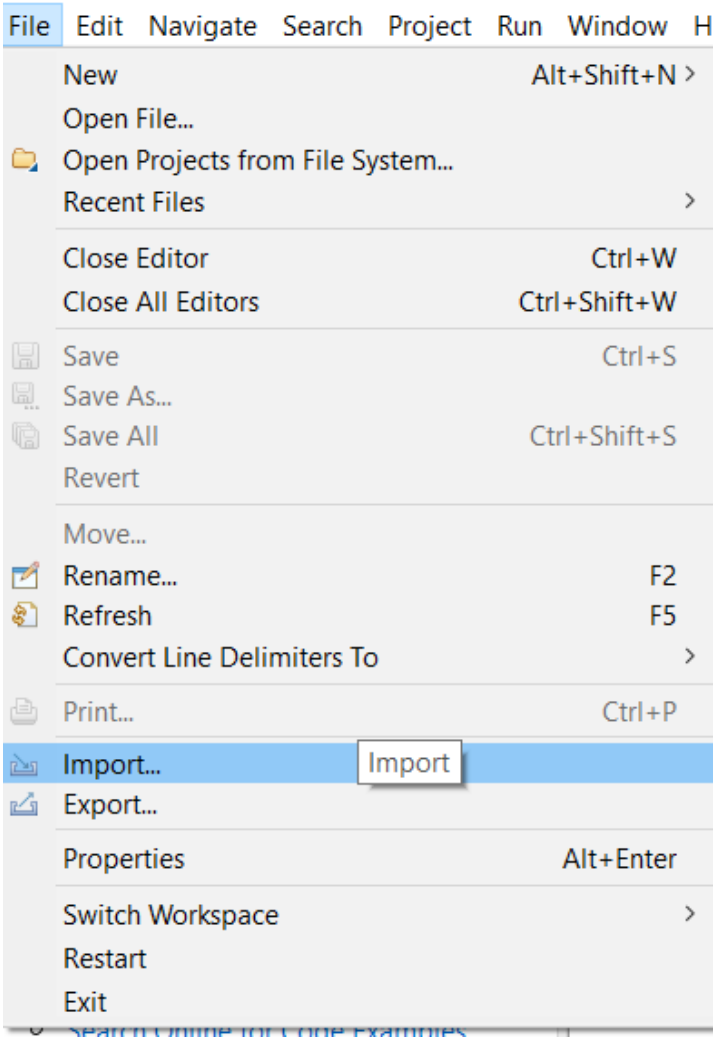
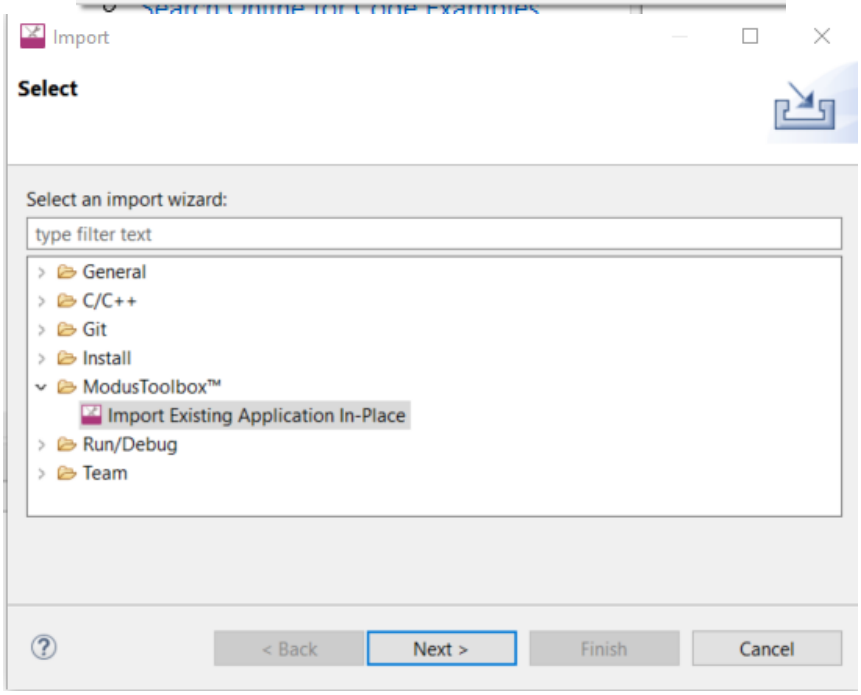
1. Prepare the HW(refer to the HW_Connection). Use the Type-C cable connect PC and HW's DAP port.

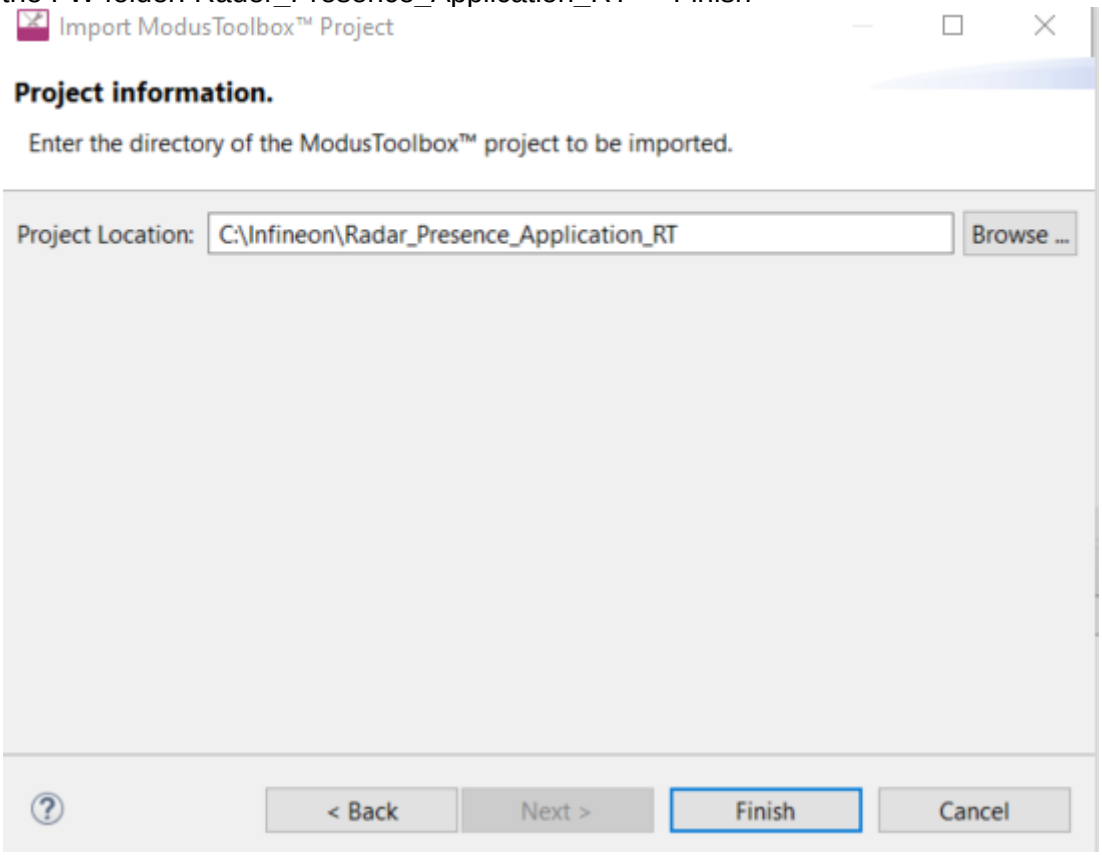


2. Use the ModusToolBox 3.0. File -> Import -> ModusToolBox: Import Existing Application In-Place.

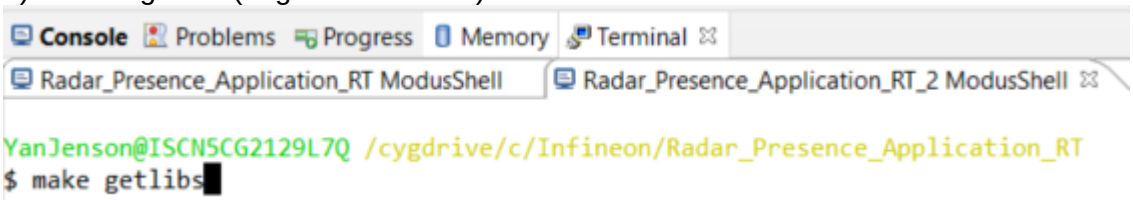




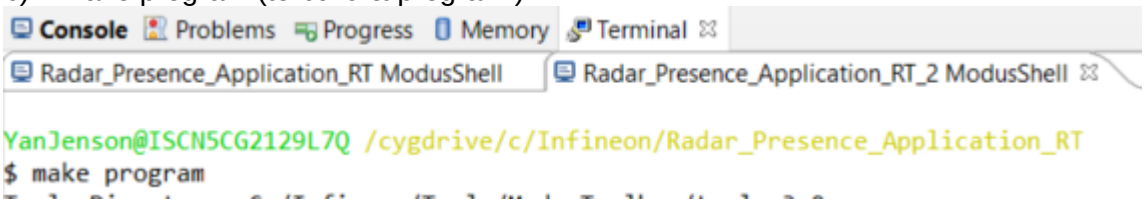
3. Browse the FW folder: Rader_Presence_Application_RT -> Finish



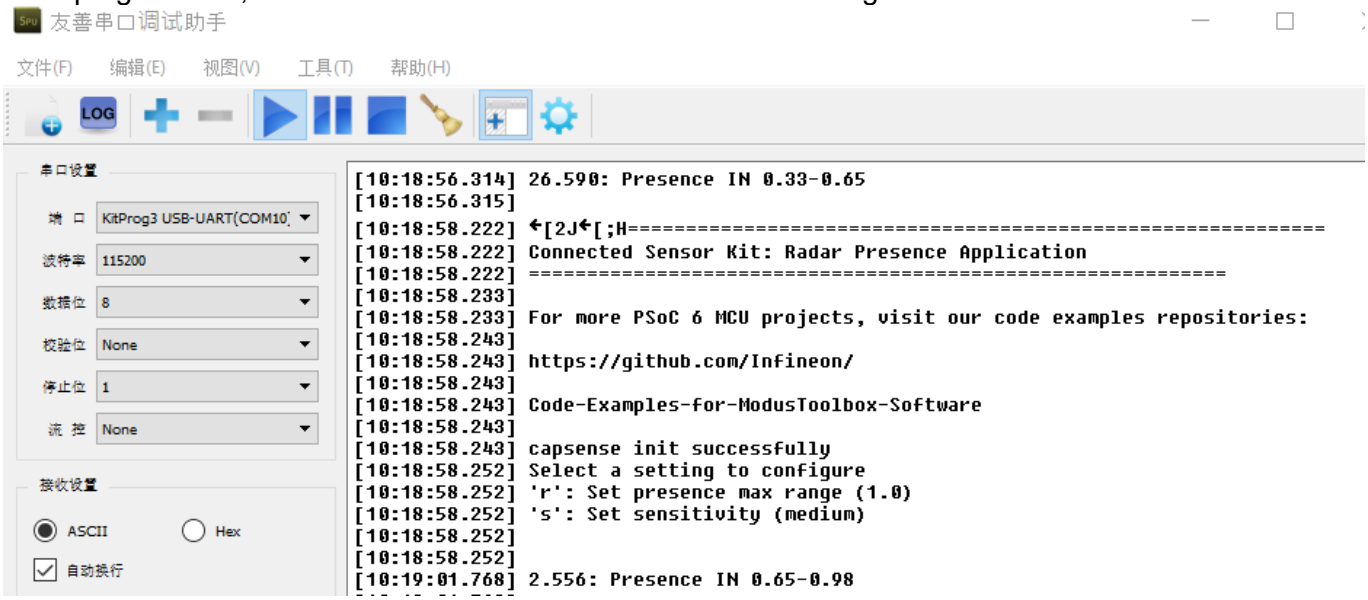
4. After imported: Use the Terminal to input CMD or use the ModusToolBox's build and program tool :
   a) make getlibs (to get the libraries)



   b) make program (to build & program)



5. After programmed, use the UART Terminal to check the demo's logs:



The Radar can detect the People presence, max range is: 0.35-10.2 per "Connected Sensor Kit (CSK) Presence Detection Solution User guide".

The proximity sensor can detect the ~4 cm proximity by using the default proximity sensor in CSK adaptor. If you want to detect the longer proximity: use the external wired (design the length and tune the Capsense's parameters in FW).

```
[10:22:49.082] 2.558: Presence IN 0.33-0.65
[10:22:49.087] Proximity 0-30cm
[10:22:49.087] Proximity 0-30cm
```

This demo combined the 60GHz Radar Presence and Capsense Proximity functions. The MCU(CY8C624ALQI-S2D42) resource, Ram & Flash resource is enough for this application.

```
Calculating memory consumption: CY8C624ALQI-S2D42 GCC_ARM -Og

 ------------------------------------------------------
| Section Name          | Address      | Size         |
 ------------------------------------------------------
| .cy_m0p_image         | 0x10000000   | 6216         |
| .text                 | 0x10002000   | 136440       |
| .ARM.exidx            | 0x100234f8   | 8            |
| .copy.table           | 0x10023500   | 24           |
| .zero.table           | 0x10023518   | 8            |
| .data                 | 0x080022e0   | 2320         |
| .cy_sharedmem         | 0x08002bf0   | 8            |
| .noinit               | 0x08002bf8   | 224          |
| .bss                  | 0x08002cd8   | 4428         |
| .heap                 | 0x08003e28   | 1026520      |
 ------------------------------------------------------

Total Internal Flash (Available)          2097152
Total Internal Flash (Utilized)           147008

Total Internal SRAM (Available)           1046528
Total Internal SRAM (Utilized with heap)  1033500
```