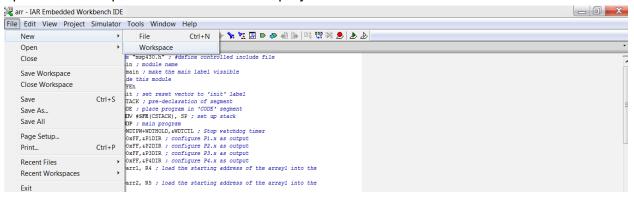
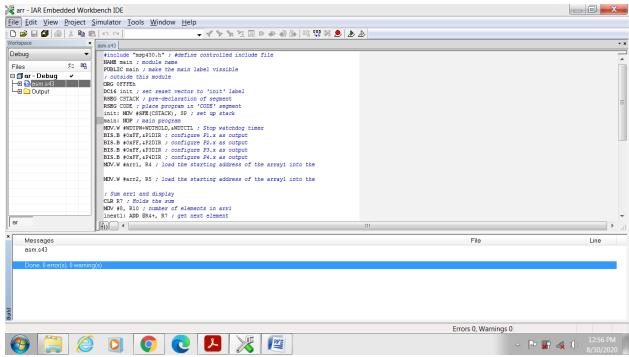
## **Experiment 6**

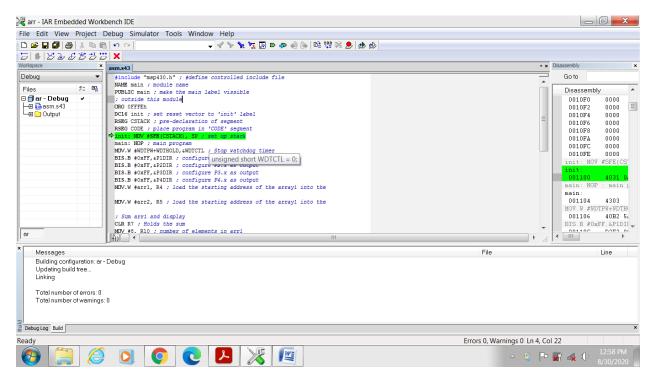
- 1. Open IAR Workbench to perform the following programs.
- 2. Write an assembly language program for summing up two integer arrays.
- 3. Open new workspace and then make new project file.



4. Add the program file and then build it.

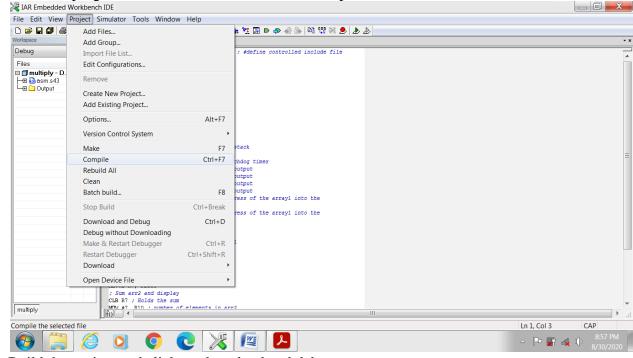


5. Then click on download and debug and check the disassembly.

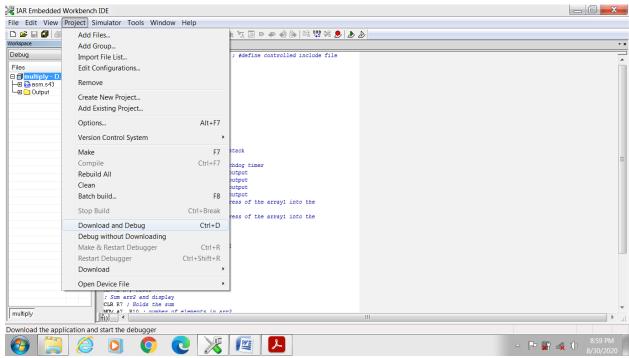


7. Write a subroutine m8x8sa using the MSP430 assembly language to multiply two signed 8-bit integers and return back the 16-bit result. Use shift-and-add method to multiply two numbers. Pass parameters through general-purpose registers.

• Write the program in IAR workbench and then compile it.



• Build the project and click on download and debug.



8. Write a subroutine *m8x8h* using the MSP430 assembly language to multiply two signed 8-bit integers and return back the 16-bit result. Use hardware multiplier of the MSP430 to perform multiplication.

Write the program in IAR Workbench and then compile it. IAR Embedded Workbench IDE File Edit View Project Simulator Tools Window Help k 🛂 🗟 🗩 🦈 🚳 🌬 👫 😲 🕅 🕭 🕭 Add Files... Add Group... Debug #define controlled include file Import File List.. Edit Configurations... multiply - D.
multiply - D.
make asm.s43
make asm.s43 Remove Create New Project... Add Existing Project... Options... Alt+F7 Version Control System F7 Compile thdog timer Rebuild All Clean Batch build... F8 Stop Build Ctrl+Break Download and Debug Debug without Downloading Make & Restart Debugger Restart Debugger Ctrl+Shift+R Download Open Device File multiply Ln 32, Col 13 Make the active project (build files as needed) △ [P 🔐 🚜 ():

• Then build the program and click on download and debug.

