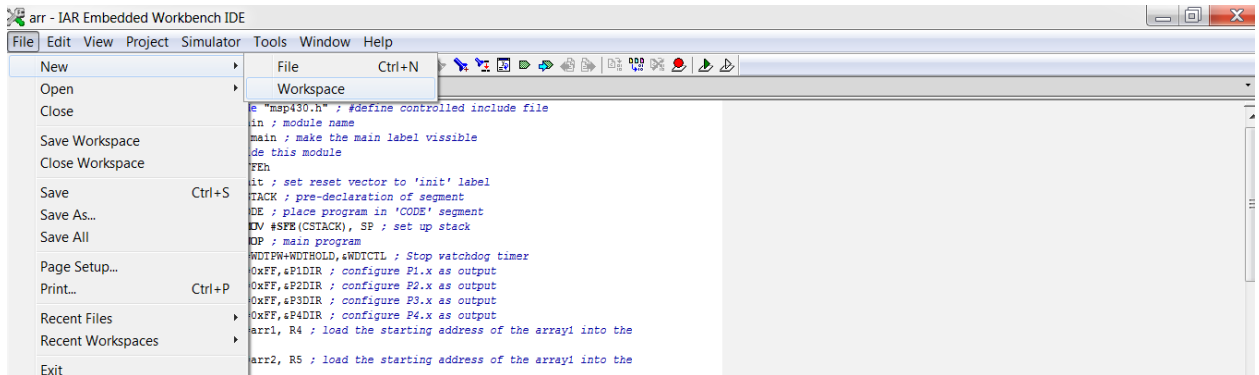
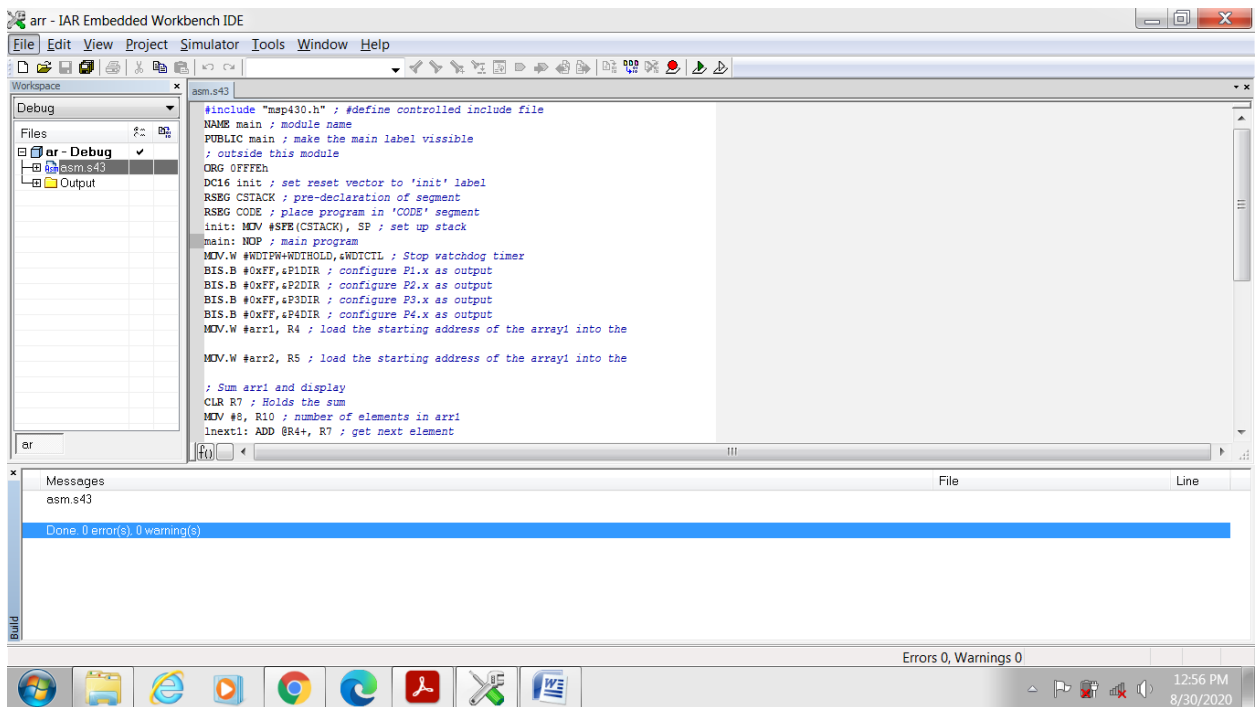


Experiment 6

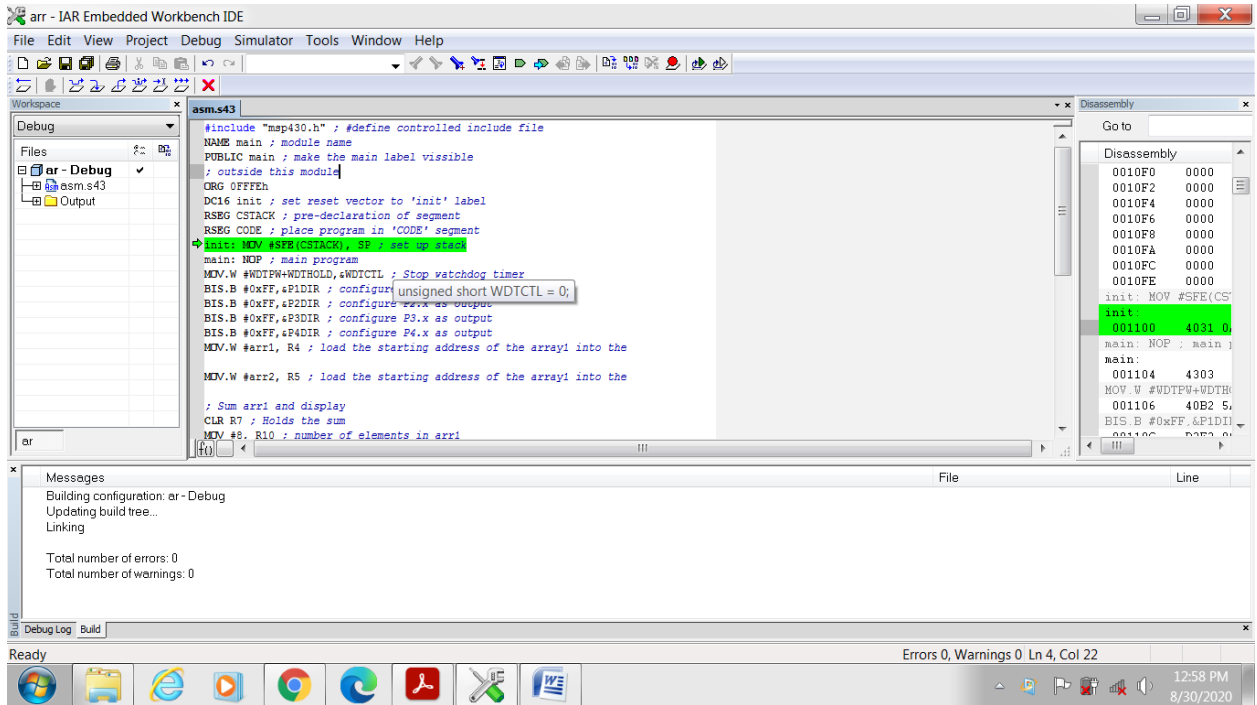
1. Open IAR Embedded Workbench to perform the following programs.
2. Write an assembly language program for summing up two integer arrays.
3. Open new workspace and then make new project file.



4. Add the program file and then build it.

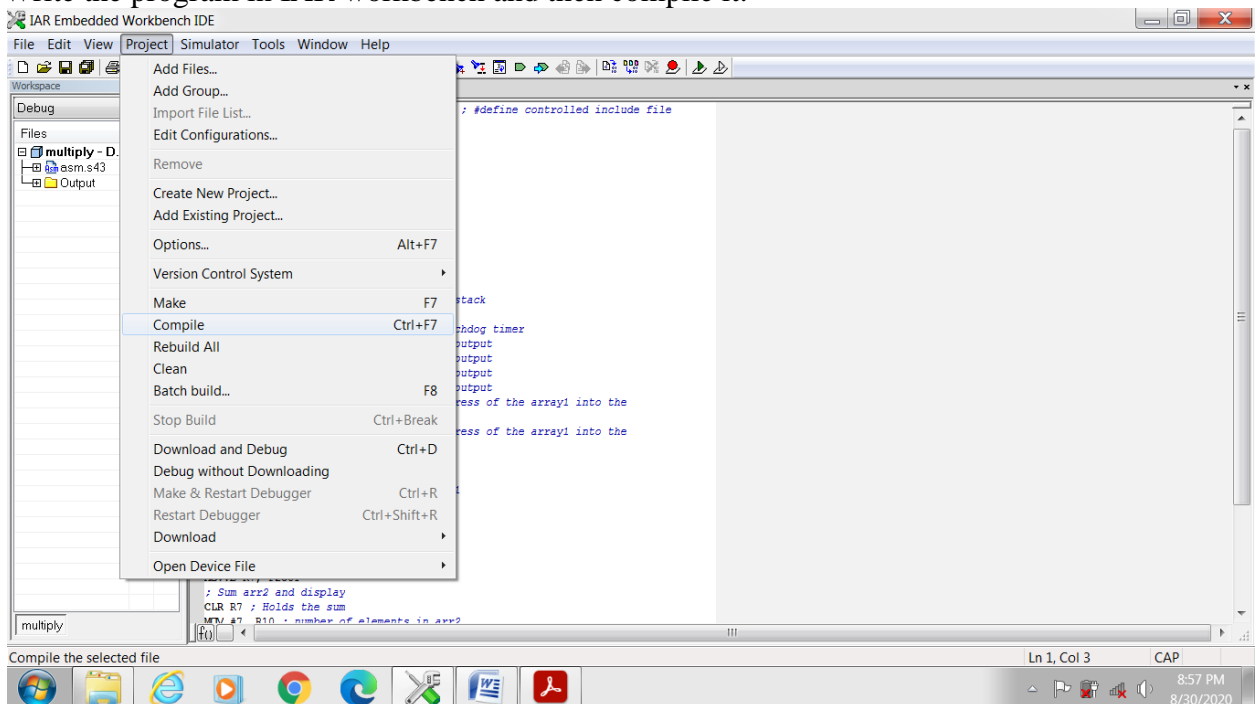


5. Then click on download and debug and check the disassembly.

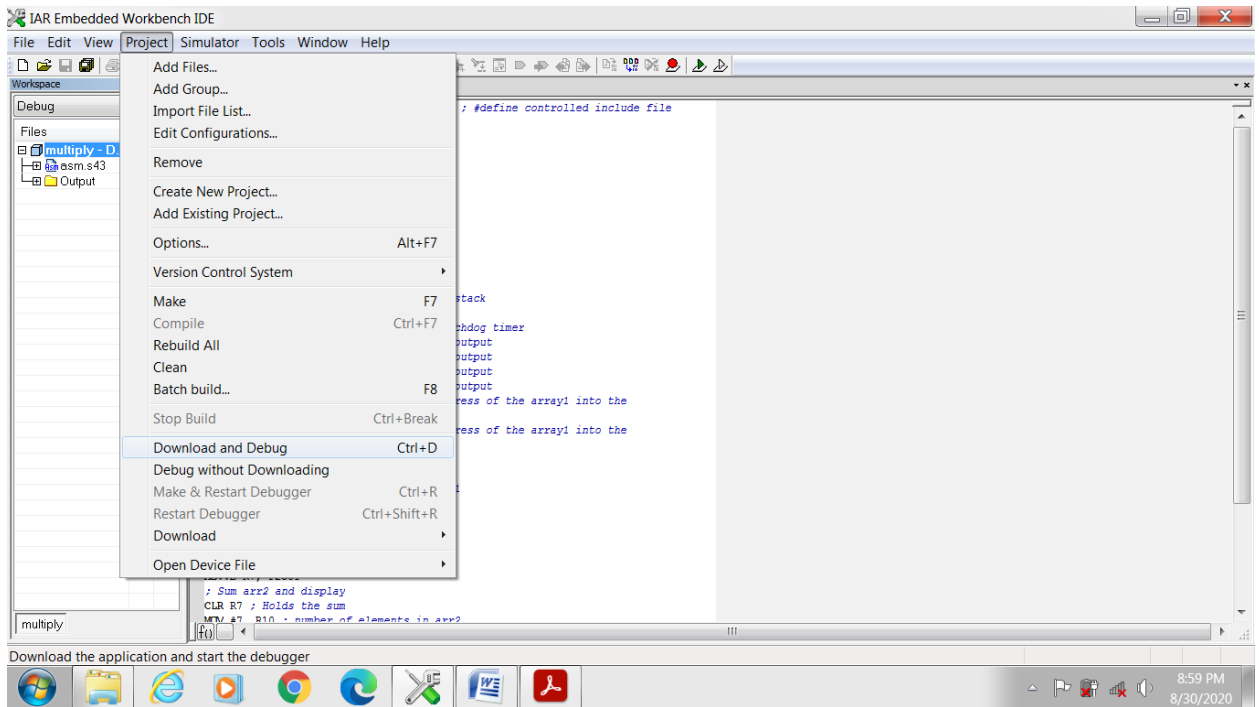


7. Write a subroutine *m8x8sa* using the MSP430 assembly language to multiply two signed 8-bit integers and return back the 16-bit result. Use shift-and-add method to multiply two numbers. Pass parameters through general-purpose registers.

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

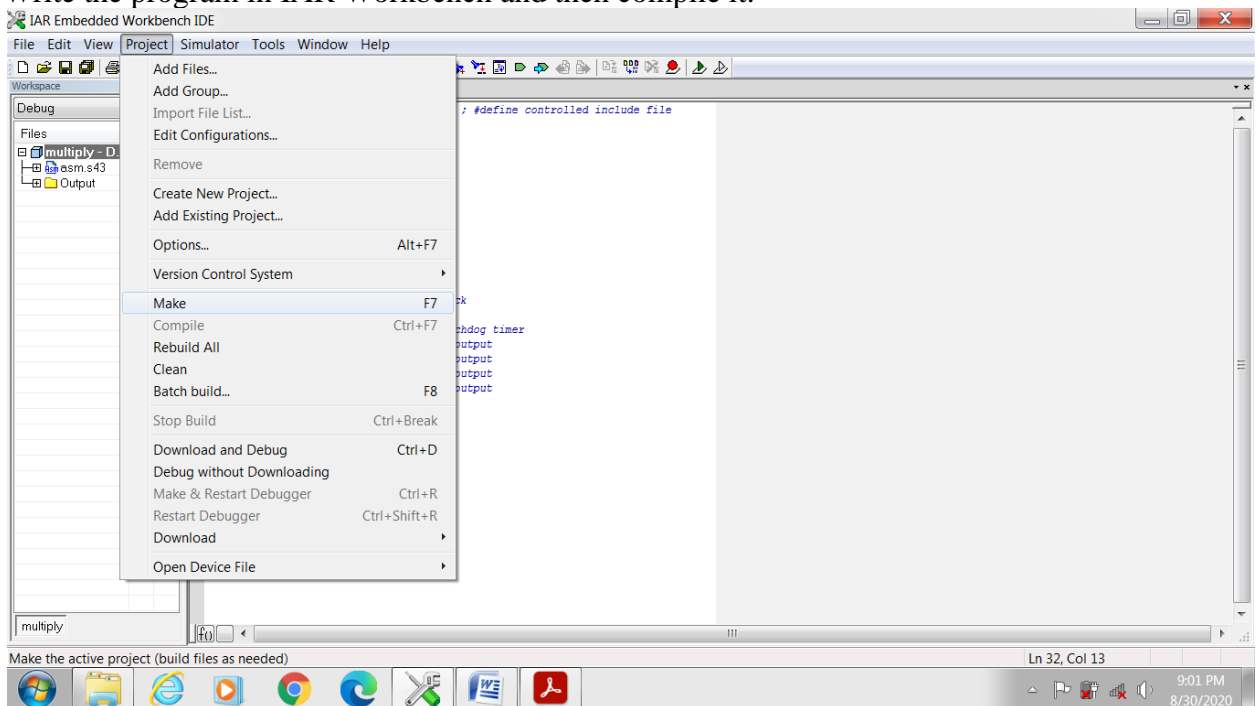


- Build the project and click on download and debug.



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.



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

