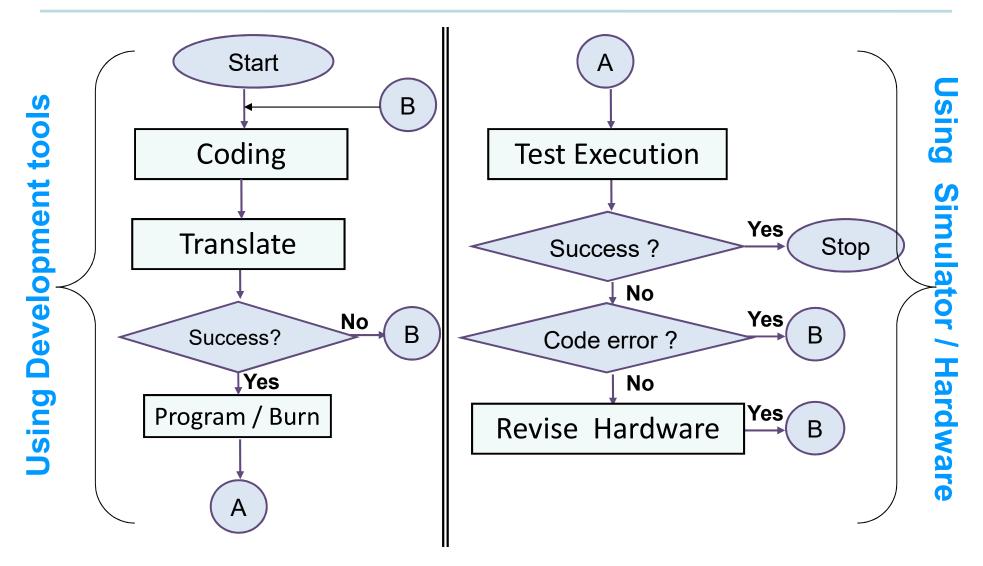
Hex file creation using Keil uVision

WEL Labs, IITB 2016

Programming



Development Tools

- Coding Editor => Entry of code into file(s)
- Translation Assembler or Compiler
 - => Generate machine code from source code
- Program Programmer
 - => Put machine code in the chip
- Execution check using Debugger to verify operation of program (on Hardware
 - or Simulator)

Single Point Solution?

Keil uVision IDE

µVision

an easy-to-use **IDE** (Integrated Development Environment)

- Project management,
- Source code editing,
- Code building facilities,
- Run-time environment,
- Program debugging



Since 1982

Acquisition by



Now providing



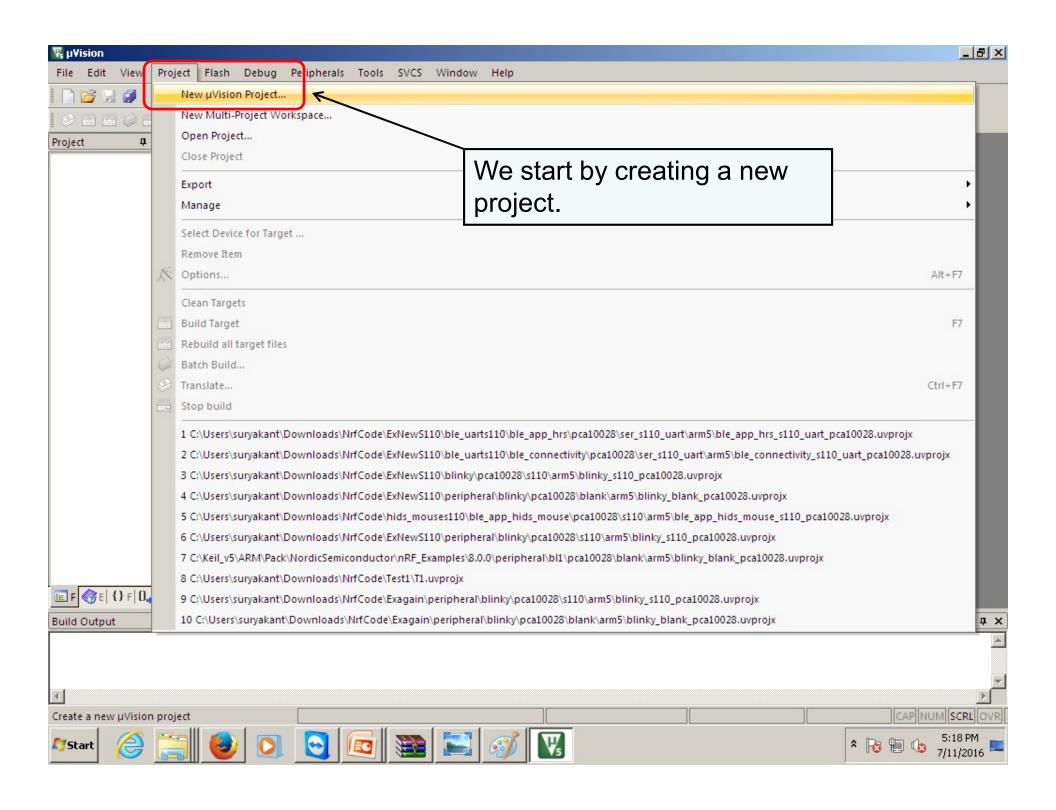
Keil uVision IDE ...

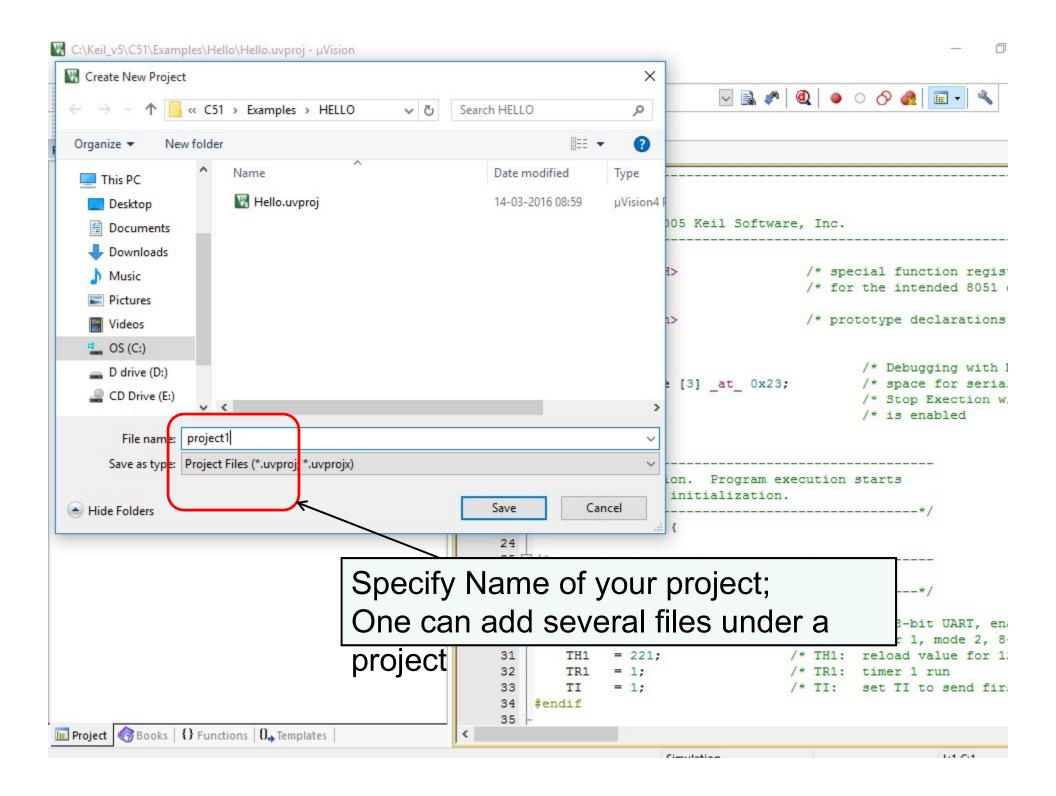
- Project: A collection of files related to a particular programming task.
- Build: The process in which only the files modified since last build are assembled/compiled for the chosen microcontroller device
- Rebuild: The process in which all files are assembled/compiled irrespective of their modification state.

Double click on the icon to start "keil uVision5" or "keil uVision4"

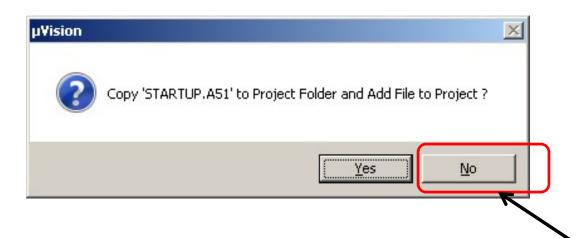




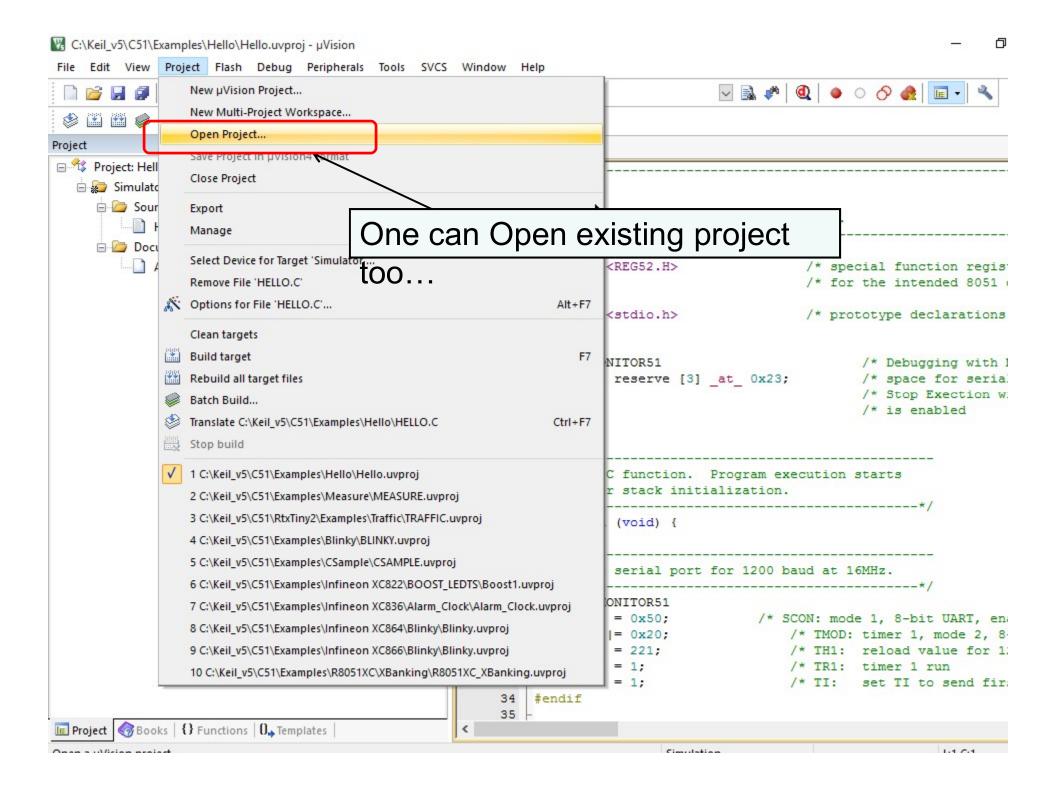


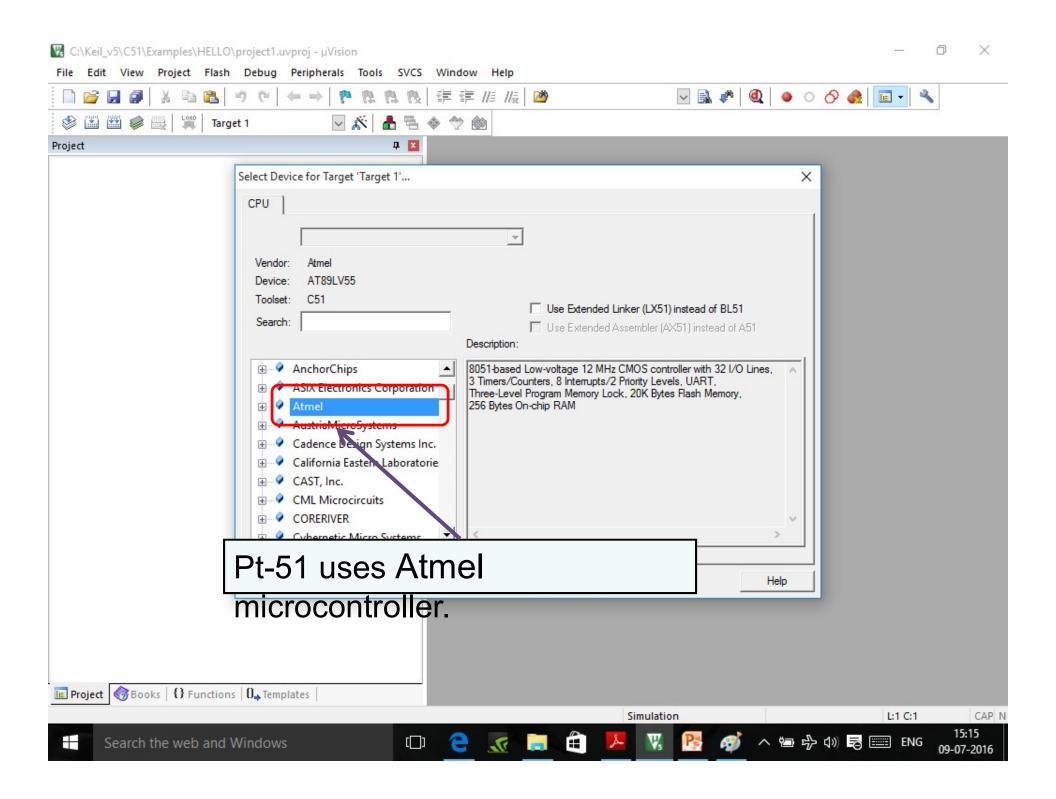


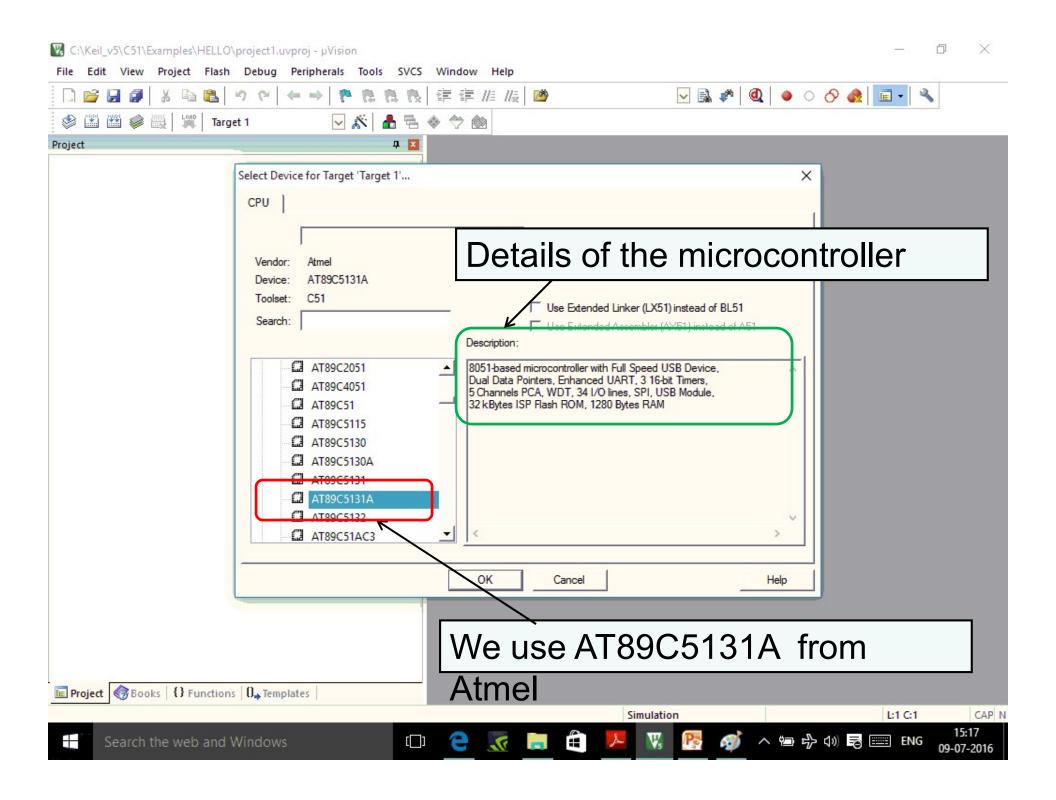
Creating a New Project



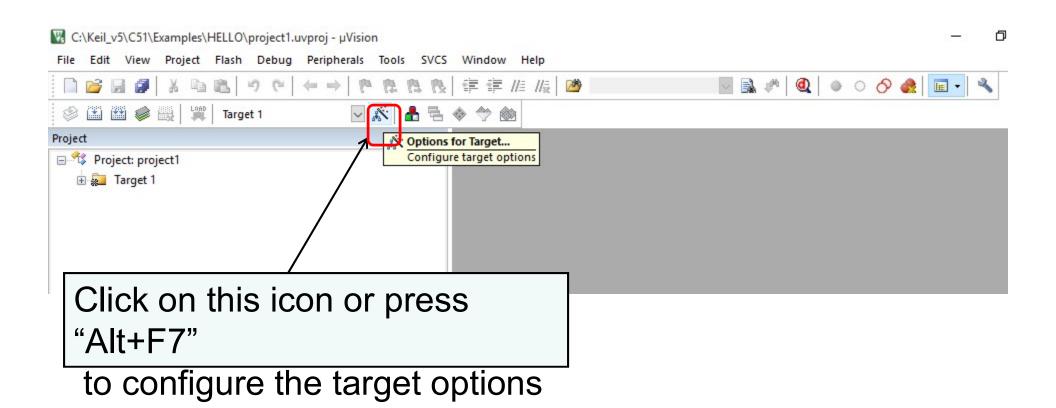
- Select "No" for programs in Assembly language.
- Startup.A51 is a file for programs in C. It is used to setup the proper memory areas like Code, Data and Stack for use.



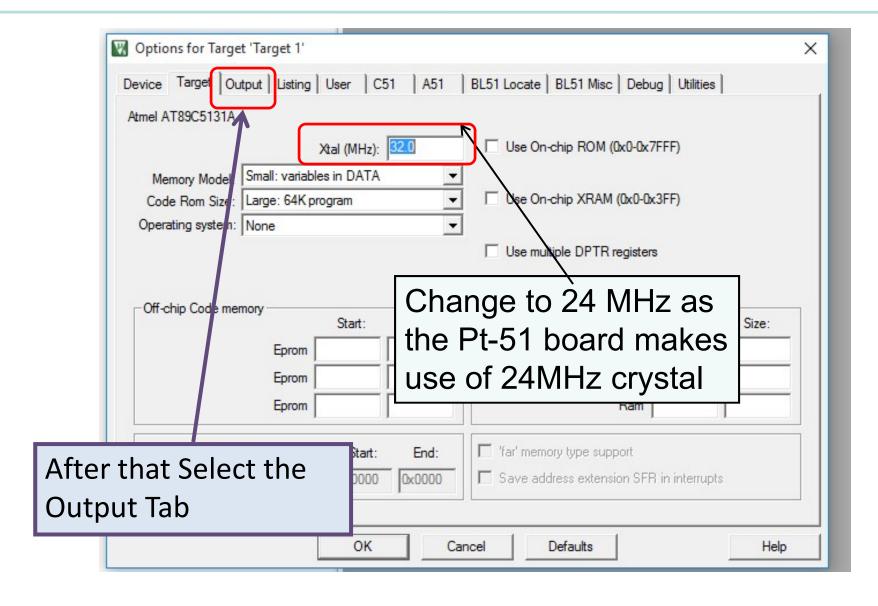




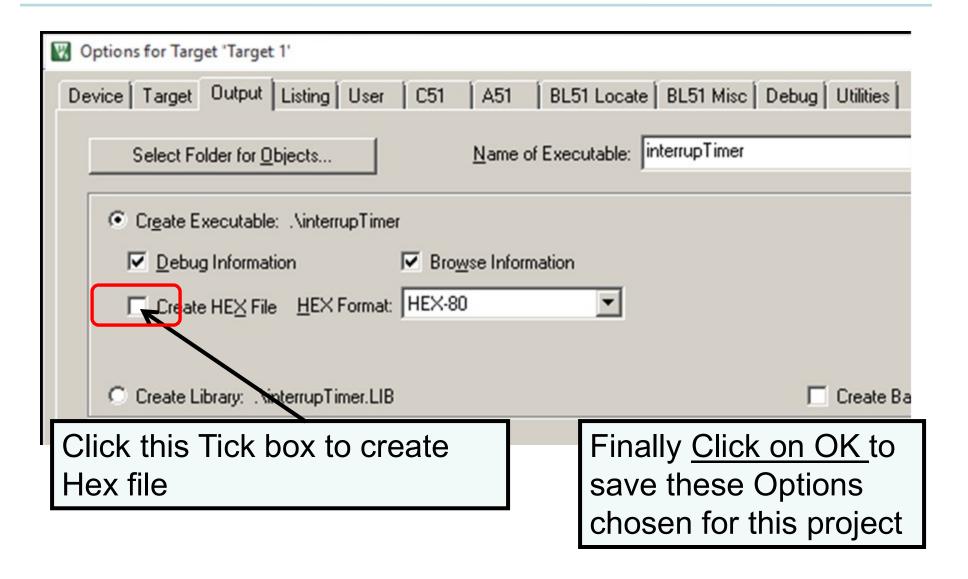
Configuring the Project target options

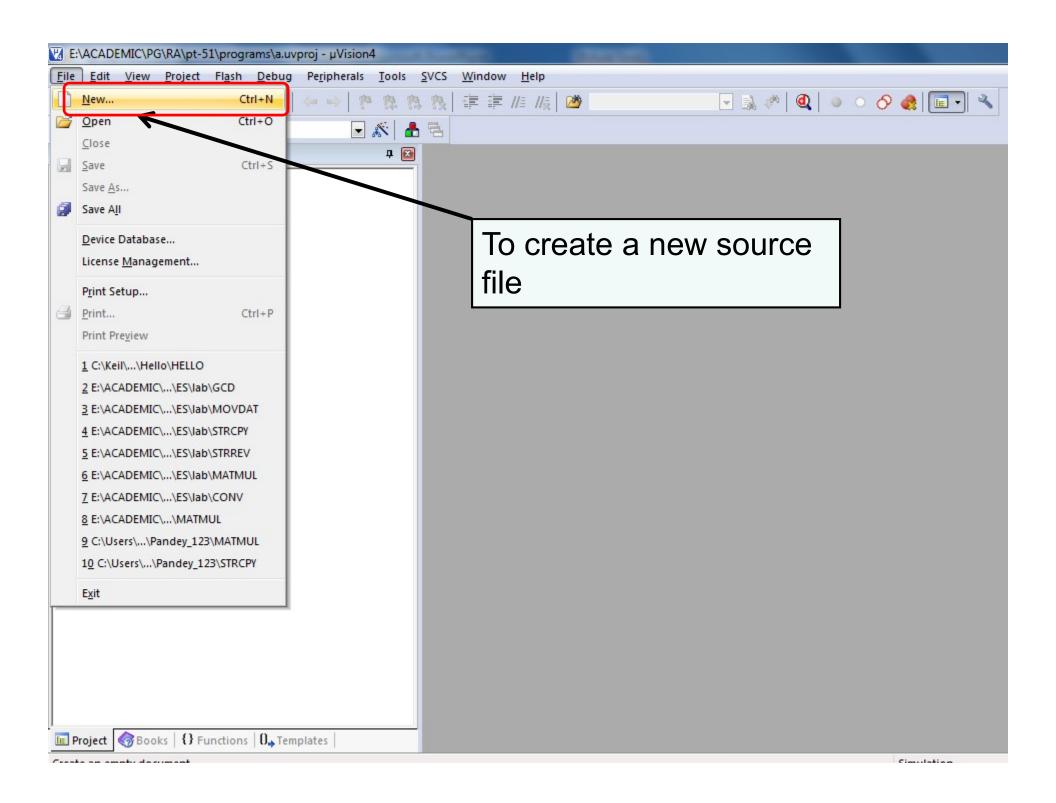


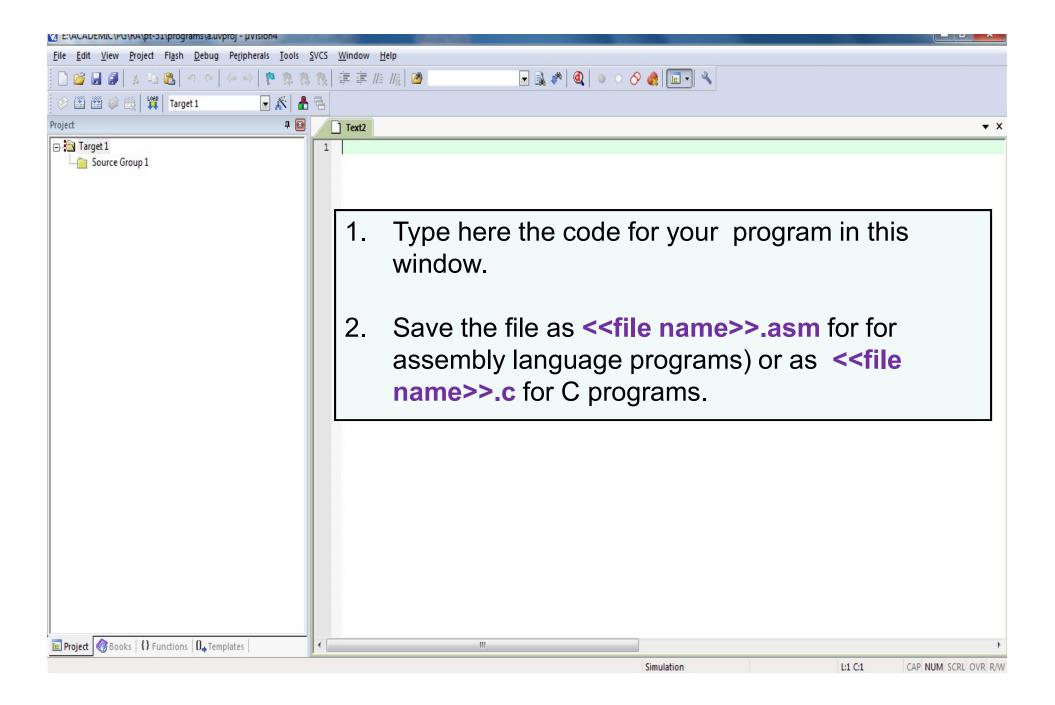
Configuring the Crystal frequency

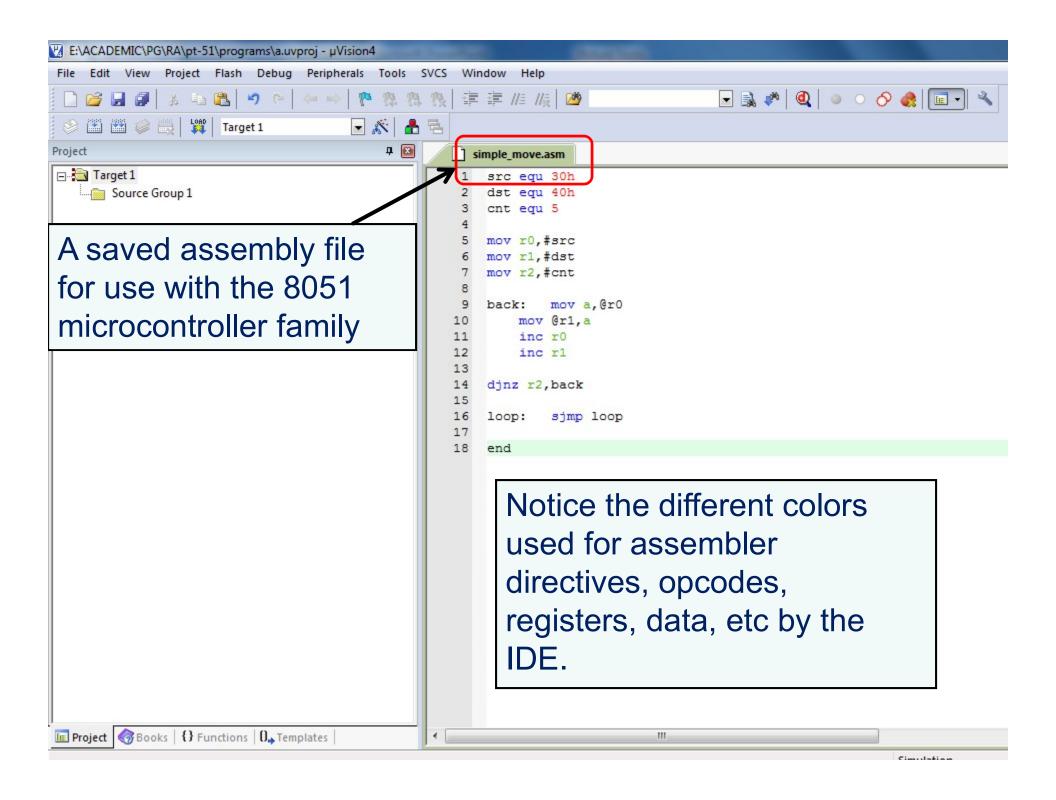


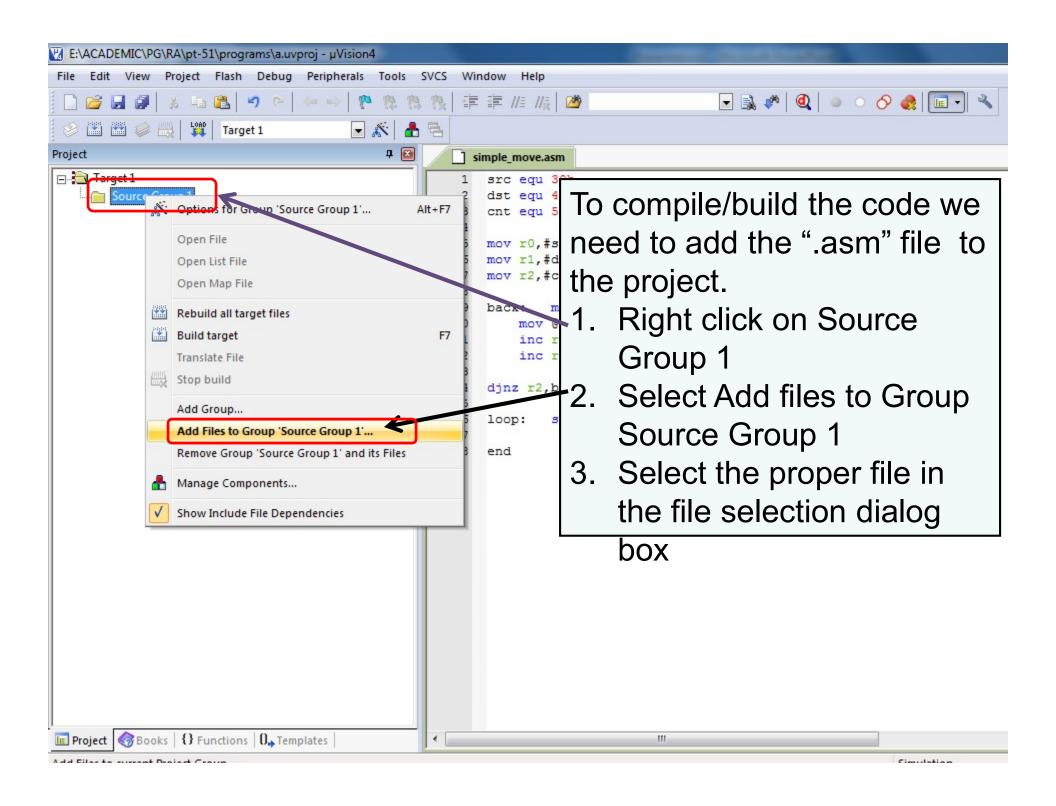
Creating HEX file

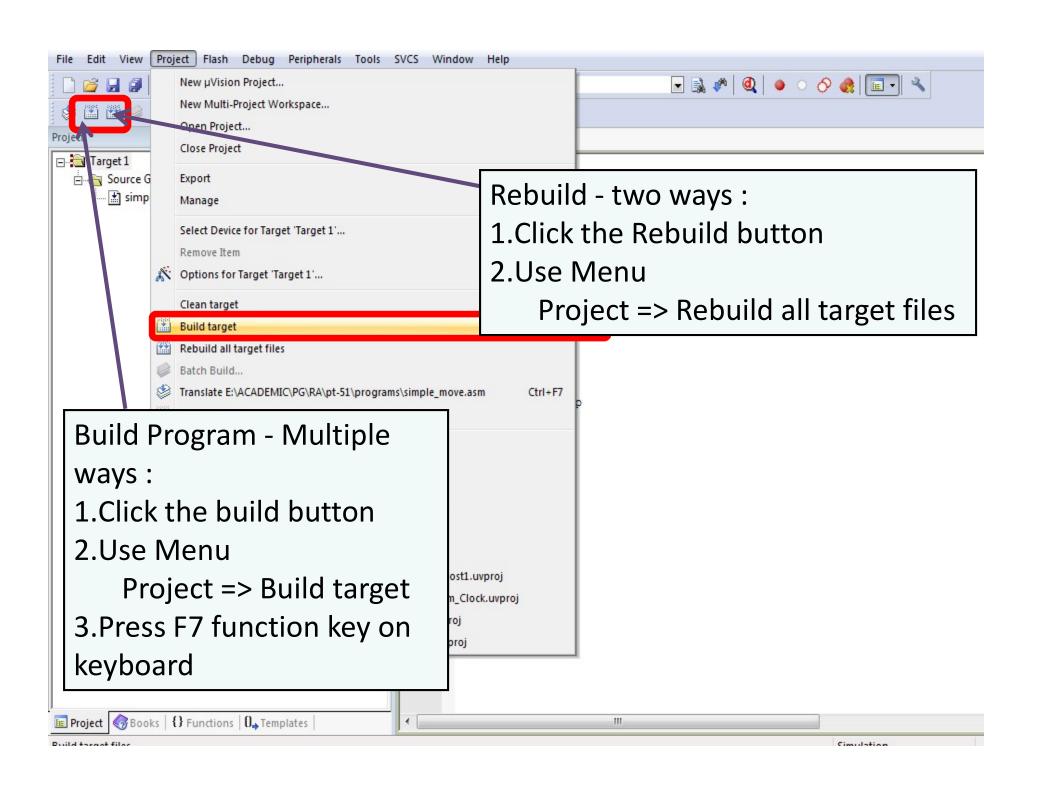


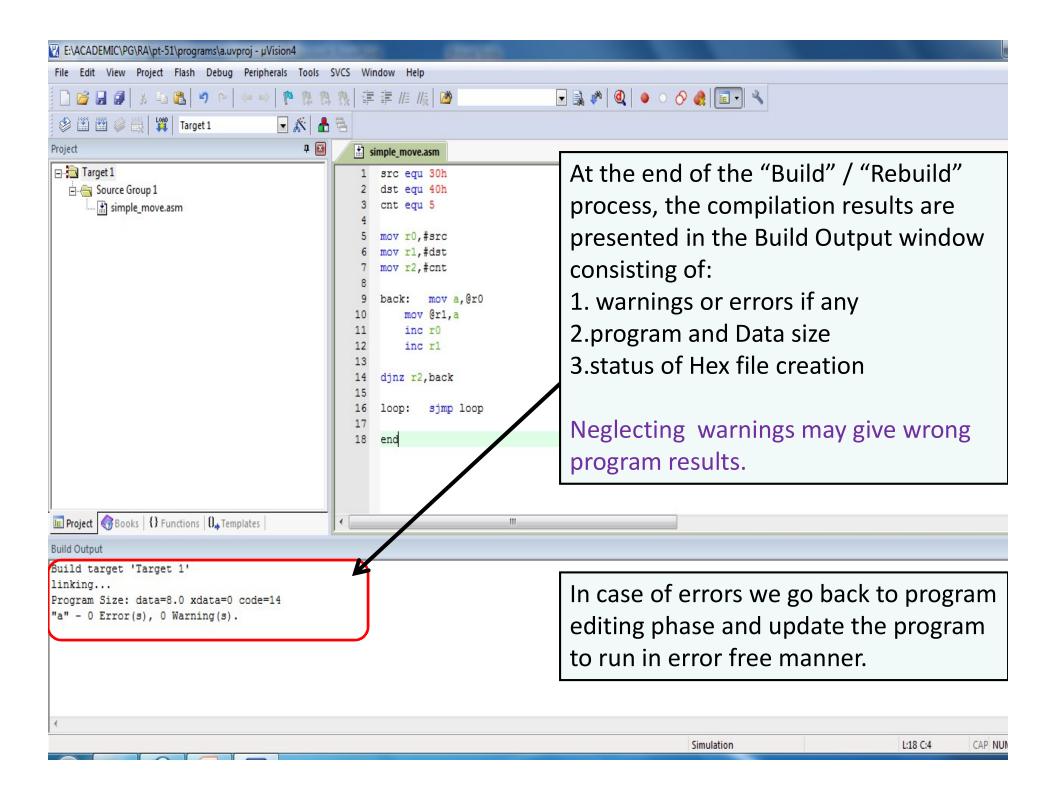












Questions?

Thank you

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For doubts/errors in this PPT contact:

Suryakant Toraskar e-mail: smtoraskar.iitbombay@gmail.com location : WEL5