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1 minute ago



## PIC18F

S/W: ① MPLAB IDE ② PIC loader

Create a new folder of your name

Double click on MPLABX IDE.

Go to File → New project → Microchip Embedded → Standalone project → Next

Select device → family → Advanced 8 bit MCU (PIC18) → Under device choose PIC18F4550 → Next

Select tool: Simulator → Next

Select compiler → XC8 → Next

Select project name & folder → Give name → select project location — uncheck 'set as main project option' click finish.

\* Adjustment for bootloaders:—

from project window - Right click on project name → Properties  
Select XC8 linker

In option categories → select Additional options →

In code offset % write 800 → click OK

Compiling project:—

Go to project window → Right click on project folder &amp; Select build or clean &amp; build

Go to file → New → C file → Give name → Type → Save

PIC loader:—

Connect USB cable to board.

open PICloader → Programs → Settings → <sup>USB to</sup> select serial

Com port → OK

Go to programs → Break/Reset Mode → click Reset Switch on board

Go to programs → Bootloader Mode

File → open → Browse

Project folder → dist → default → production → choose your hex file

Go to programs → write device

Press reset on the board.



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# Steps to Run a Program in Keil $\mu$ vision 3

## STEP 1: CREATING NEW PROJECT

- 1) Open Keil  $\mu$ vision 3 from Start Menu
- 2) Select New Project from the Project Menu
- 3) Name the project 'projectname.uv2'.
- 4) Click on the Save Button.  $\rightarrow$  The device window will be displayed.
- 5) Double Click on Atmel  $\rightarrow$  select AT89C51  $\rightarrow$  Press OK.
- 6) Click File Menu and select new  $\rightarrow$  new window will open up in the Keil IDE.
- 7) Write the Program.
- 8) Click on File menu and select Save as.
- 9) Name the file as "filename.asm" and Click the Save Button.

## STEP 2: ADDING FILE TO THE PROJECT

- 1) Expand Target 1 in the Project Window.
- 2) Right click on Source Group and select add files  $\rightarrow$  add the .asm file.
- 3) Right Click on file.asm and then click on Build All.
- 4) Remove the errors from the program if any.

## STEP 3: GENERATING HEX FILE

- 1) Click on Flash Tools  $\rightarrow$  Select Configure Tools
- 2) Click on Target tab and put frequency as 11.0592MHz.
- 3) Click on Output tab and tick on "Create Hex File".
- 4) Now right click on filename.asm in Project window and click on rebuild all.
- 5) Observe output window to see if any errors.

## STEP 4: FLASH MAGIC CONFIGURATION

- 1) Double click on Flash Magic Option from Desktop.
- 2) Click on Options Tab  $\rightarrow$  Select Advanced Options.
- 3) Select Hardware Configuration  $\rightarrow$  Untick all options  $\rightarrow$  OK.
- 4) a) Select Device as 89V51RD2  
b) Serial com port- COM1  
c) Baud Rate- 9600
- 5) Browse the hex file and click on Start to burn program in microcontroller.