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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 bootloader:-

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 →  
Select build or clean & build

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

## PIC loader:-

Connect USB cable to board.

Open PICloader → Programs → Settings → Select Serial  
Com port → OKGo 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

Go to programs → write device

Press reset on the board.



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# Steps to Run a Program in Keil μvision 3

## STEP 1: CREATING NEW PROJECT

- 1) Open Keil μvision 3 from Start Menu
- 2) Select New Project from the Project Menu
- 3) Name the project ‘projectname.uv2’.
- 4) Click on the Save Button. → The device window will be displayed.
- 5) Double Click on Atmel → select AT89C51 → Press OK.
- 6) Click File Menu and select new → 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 → 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 → 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 → Select Advanced Options.
- 3) Select Hardware Configuration → Untick all options → 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.