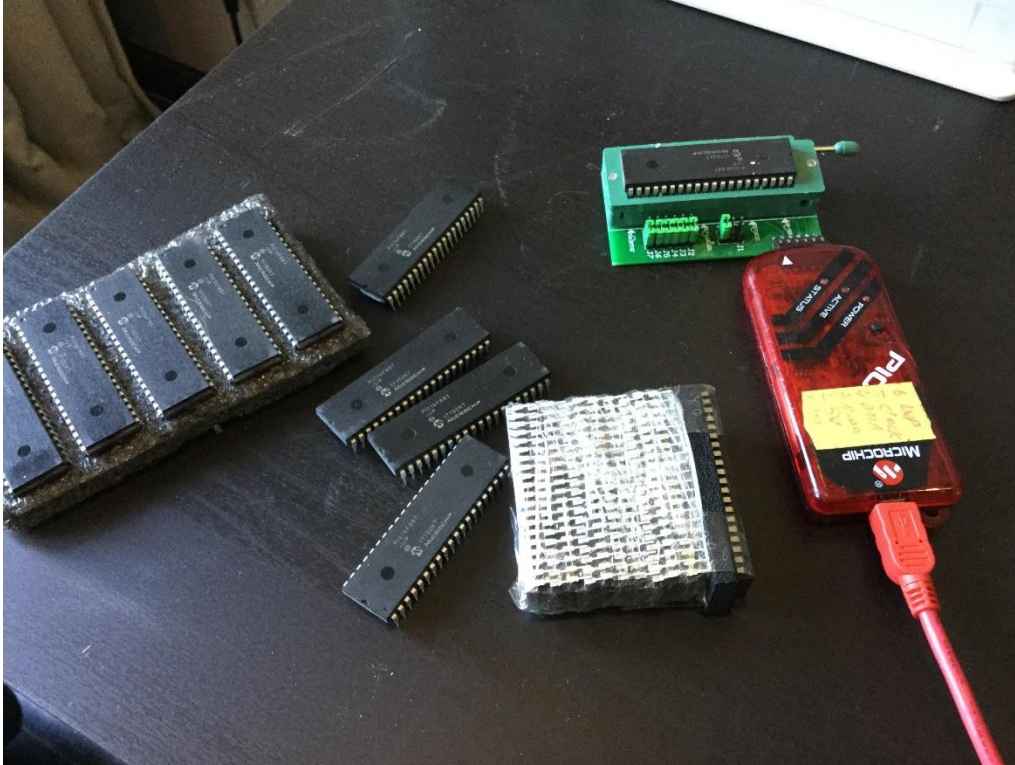


## Short description for uploading code to a microcontroller.

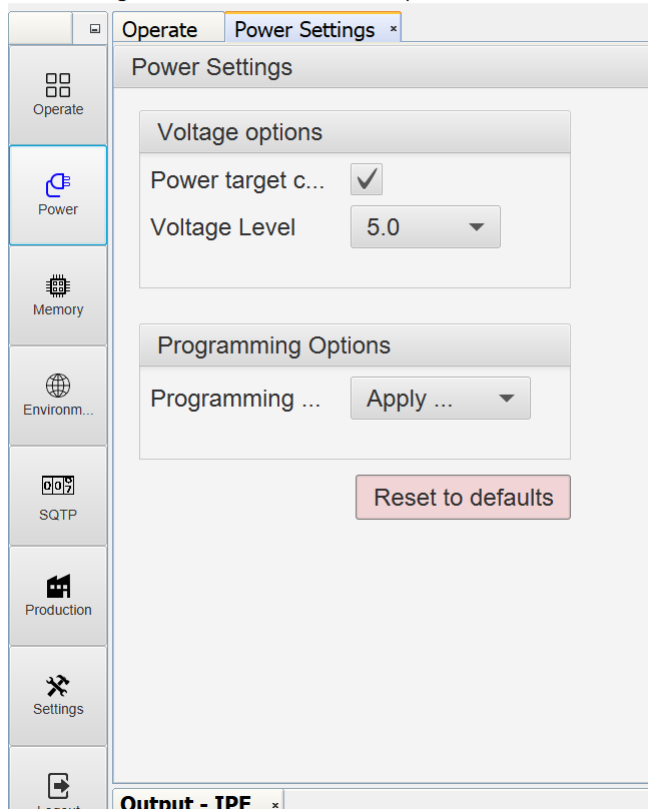
There are several ways to do this, I will describe one of them.



What you need in terms of hardware is a PICKIT from Microchip and an IC socket that you set to the type of microcontroller you want to program. In the photo an IC with 40 pins. You connect the PICKIT to your PC as shown in the picture.



You can download MPLAB X IDE from the Microchip website, and open this program.



Check option 'Power target'

Operate

Power

Memory

Environ...

Operate

Power Settings

Device and Tool Selection

Family: Mid-Range 8-bit MCUs (PIC10/1...

Device: PIC16F887

Tool: PICKit3 S.No : BUR134763493

Apply

Disconnect

Program

Erase

Read

Verify

Blank Check

Hex File: C:\Users\GGIEB\OneDrive\Microcontrollers\S88...

Hex File: Click on browse to select a SQTP file

Browse

Clear...

Browse

Clear...

Results

CP=OFF Check... 2B31

Checksum: 2B31

Pass Co... 3

Fail Count: 8

Total Count: 11

Select device and Hex File to upload. Check for Tool whether the program has recognized the Pickit. You can then upload the software to the microcontroller by clicking on 'Program'.

Operate

Power

Memory

Environm...

SQTP

Production

Settings

Logout

Operate

Memory Settings

Device and Tool Selection

Family: Mid-Range 8-bit MCUs (PIC10/1...  
Device: PIC16F887  
Tool: PICkit3 S.No : BUR134763493  
Apply  
Disconnect

Results

CP=OFF Check... 2B31  
Checksum: 2B31  
Pass Co... 5  
Fail Count: 8  
Total Count: 13

Program Erase Read Verify Blank Check

Hex File: C:\Users\GGIEB\OneDrive\Microcontrollers\S88...  
SQTP File: Click on browse to select a SQTP file

Output - IPE

```

program memory: start address = 0x0, end address = 0x2e7
configuration memory
Programming/Verify complete
2021-04-03 16:54:09 +0200 - Programming complete
2021-04-03 16:54:31 +0200 - Programming...

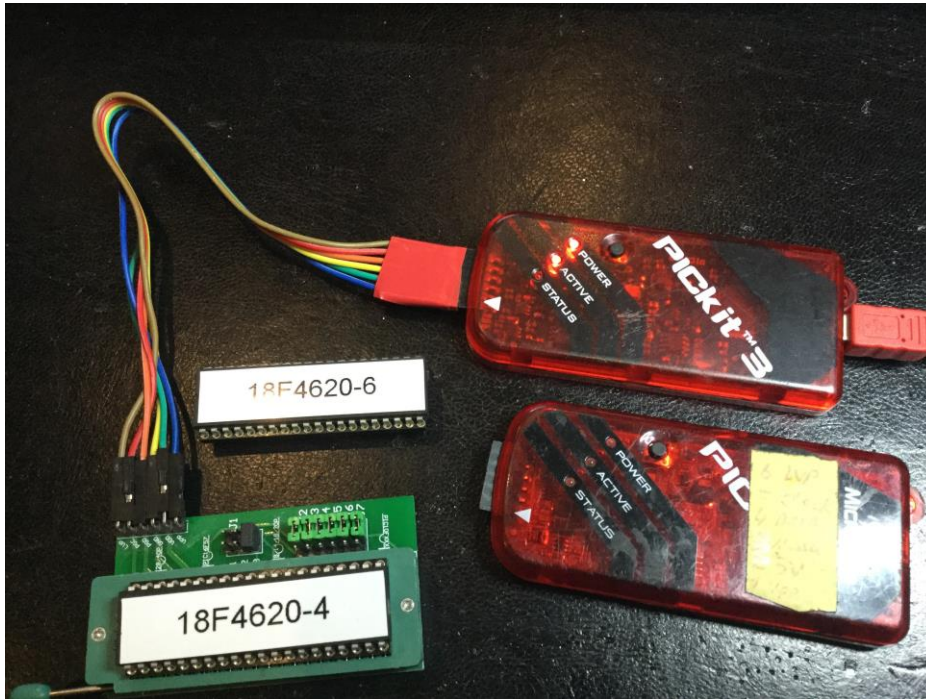
Device Erased...

Programming...

The following memory area(s) will be programmed:
program memory: start address = 0x0, end address = 0x2e7
configuration memory
Programming/Verify complete
2021-04-03 16:54:35 +0200 - Programming complete

```

If the upload was successful,  
you will be notified:  
'Programming complete'



Out of curiosity I ordered a clone PICKIT3. These are much cheaper and come with additional options for microcontroller programming. You can recognize them by the fact that 'Microchip' is missing on the housing. But they don't recognize all microcontrollers!