

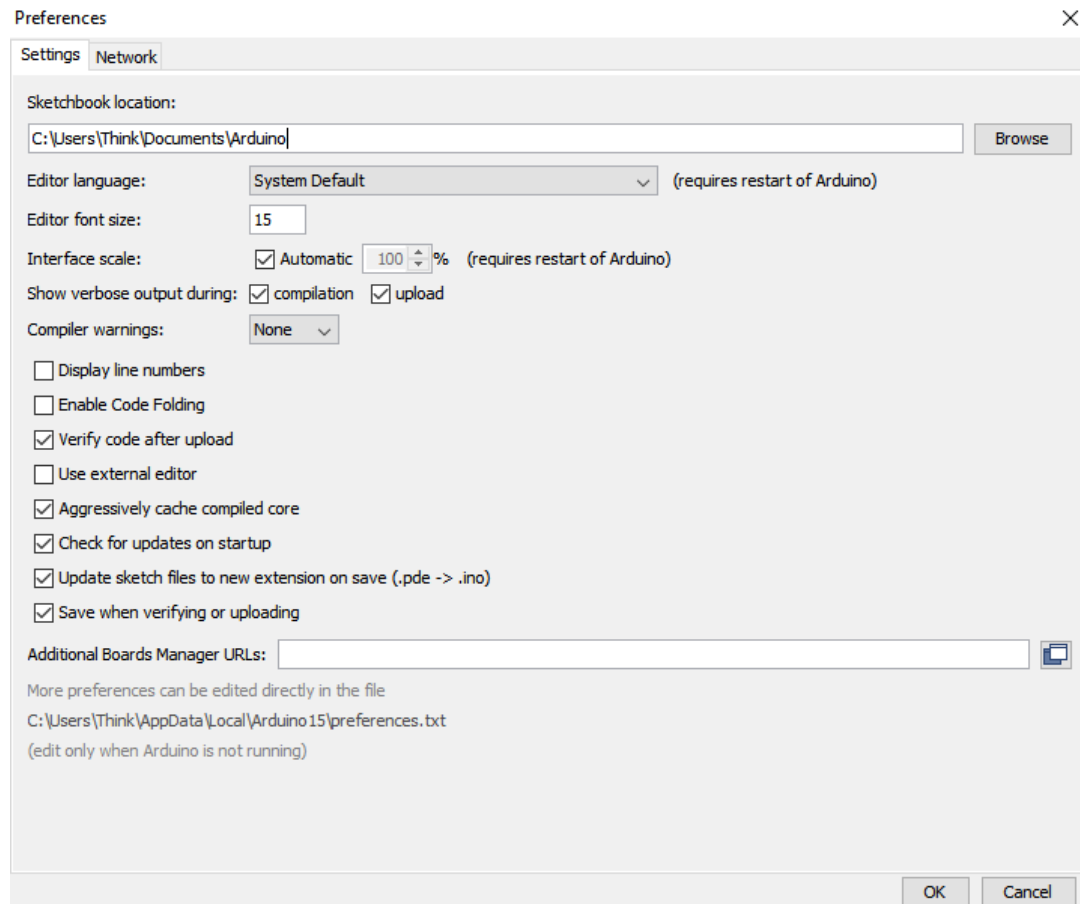
PROTEUS SIMULATIONS

Simulating Arduino sketches using Proteus 8

1) Simulating the 'Blink' example sketch

Open Arduino IDE and from File>>Examples>>Basics select 'Blink'.

Now go to File>>Preferences and make sure 'Show verbose Output' during compilation is checked.



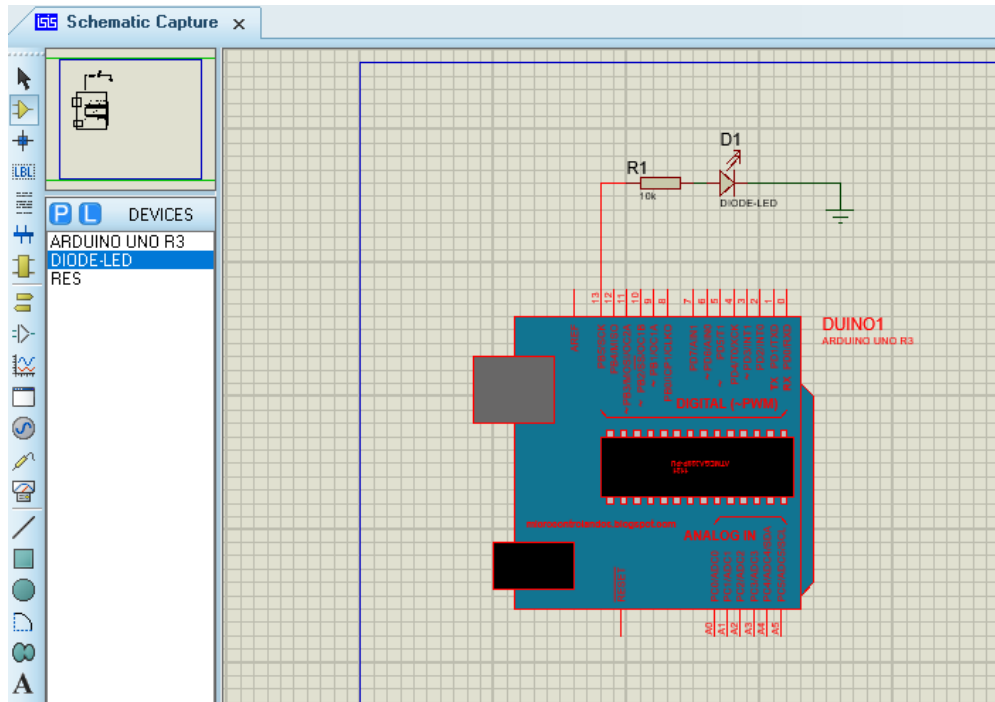
Now compile your sketch.

From the output you will get the location of your temporarily created .hex file. It will look something like this... "C:\Users\AppData\Local\Temp\arduino_build_434677/Blink.ino.hex"

Go to that location and copy the .hex file.

2) Open Proteus. Make sure you have the Arduino libraries copied to the 'library' folder in Proteus' program files.

3) Make the schematic as shown below.



Double click on the DUINO1 and the following dialog box opens.

In the 'Program File' part copy the previously acquired .hex file and click okay.

Edit Component ? X

Part Reference: Hidden: ☐

Part Value: Hidden: ☐

Element:

BLOG (Direitos Autorais) Hide All ▾

Program File: Hide All ▾

RSTDISBL (Disable reset) Hide All ▾

WDTON (Enable watchdog) Hide All ▾

BOOTRST (Select Reset Vector) Hide All ▾

CKSEL Fuses: Hide All ▾

Boot Loader Size: Hide All ▾

SUT Fuses: Hide All ▾

Clock Frequency: Hide All ▾

NAME: Hide All ▾

CLKDIV8 (Divide clock by 8) Hide All ▾

CKOUT (Clock output) Hide All ▾

Advanced Properties:

Disassemble Binary Code ▾ No ▾ Hide All ▾

Other Properties:

☐ Exclude from Simulation ☐ Attach hierarchy module
☐ Exclude from PCB Layout ☐ Hide common pins
☐ Exclude from Bill of Materials ☐ Edit all properties as text

4) Now Run the simulation using the 'Play' symbol in the bottom left of the screen.