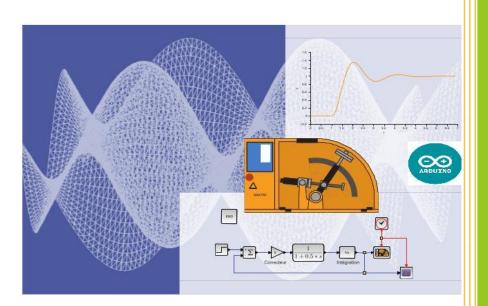


2016

Accessing serial port in scilab

Tenet Technetronics is official Training Partners for









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Introduction

Scilab is an open source, cross-platform numerical computational package and a high-level, numerically oriented programming language. It can be used for signal processing, statistical analysis, image enhancement, fluid dynamics simulations, numerical optimization and modeling, simulation of explicit and implicit dynamical systems and (if the corresponding toolbox is installed) symbolic manipulations.

Let us see, How to access serial port through Scilab

Step 1: Install 'serial port toolbox' and 'plotting library'

Open Scilab console window -> Module manager-ATOMS

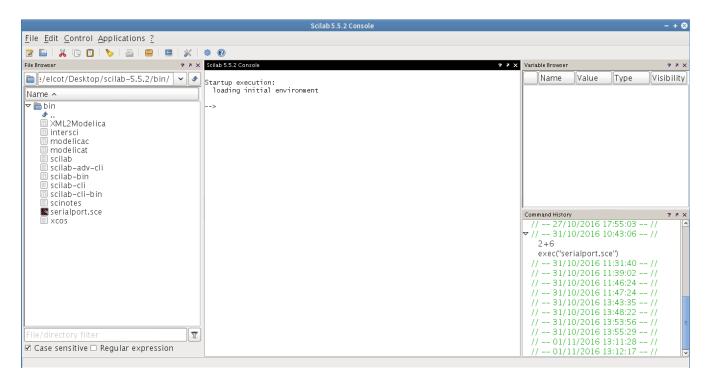


Fig (1). Scilab console window

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Step 2: Module manager -> Instruments control -> Serial port Click to install

Module manager -> graphics -> Plotting library, Click to install

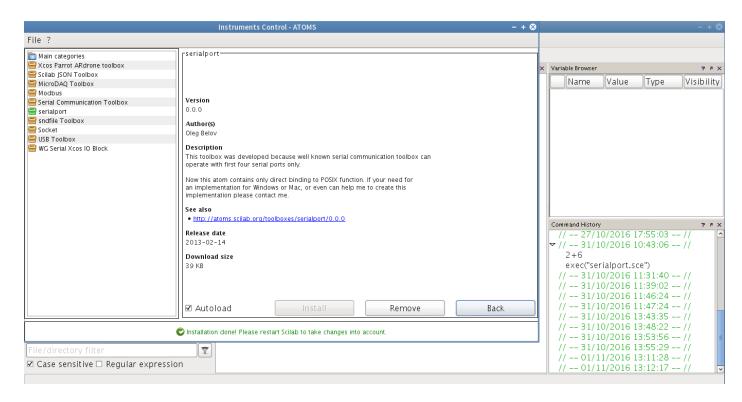


Fig (2). Instrument control-ATOMS

Step 3: After installation is done, restart the Scilab to take changes into account.

Step 4: Write arduino code and upload into arduino board.

```
File Edit Sketch Tools Help
                      Upload
 1⊟ void setup() {
       Serial.begin(9600);
 3
    1
 4
 5⊟ void loop() {
       for (int i=0;i<=100;i++)
 7 🖃
         Serial.println(i);
 9
         delay(100);
10
11
    }
12
```

Fig (3). Arduino Program

Step 5: Open SciNotes and write the following code

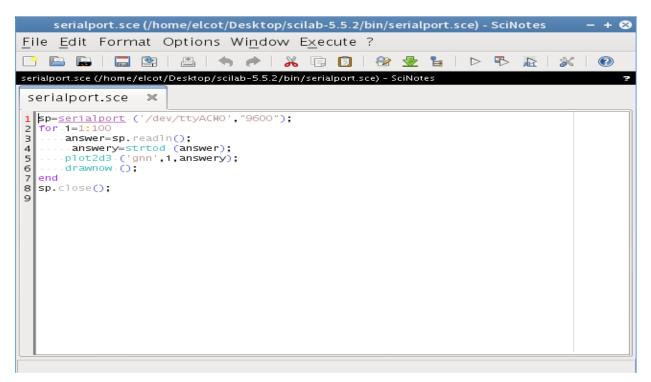
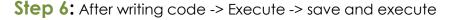


Fig (4). Serial port Program

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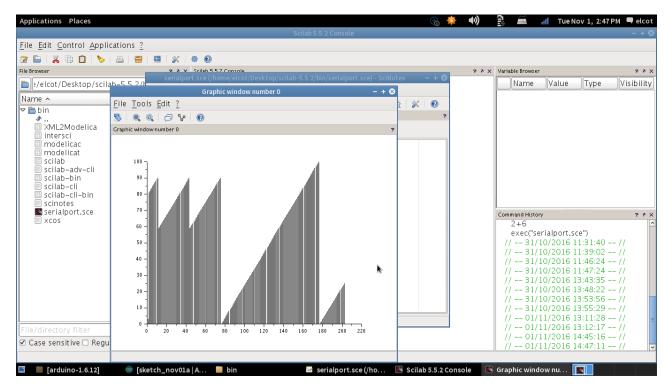


Fig (5). Graphic window

Scilab workshop:

Tenet Technetronics offers Training services with varied course offerings on Scilab as well as offer customized training on various domains using the Scilab software.

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For more info on the Scilab consulting offerings please email us at info@tenettech.com.



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