Instruction Sheet for Scilab Installation
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1 The procedure to install Scilab on Windows OS

1.1 Getting ready for Scilab installation

1. To follow the installation procedure, you need to be connected to the `Internet`.
2. 2 GB RAM (1 GB minimum) required
3. Approximately 600 MB hard disk space required

1.2 Installing Scilab

1. Open your browser and go to `www.scilab.org`
2. Go to the Download menu and locate the Software versions.
3. Click on `Scilab 6.1.0`
4. Under the Windows Vista, 7, 8, 10 menu, select the 32 bits or 64 bits installation depending on your system. This will start the download.
5. Once the download finishes, go to the folder where you downloaded the file.
6. Double click on the `.exe` file you just downloaded. The `Scilab` installation wizard opens.
7. Keep the default settings as it is and click on the `next` button. Do the same on each prompt to continue the installation.
8. Finally click on the `finish` button to complete the installation.
9. Locate the Scilab `6.1.0` shortcut created on desktop and double click on it.
10. This will open the Scilab console.

2 The procedure to install Scilab on Ubuntu Linux OS 16.04 and above

2.1 Getting ready for Scilab installation

1. To follow the installation procedure, you need to be connected to the `Internet`.
2. 2 GB RAM (1 GB minimum) required
3. Approximately 600 MB hard disk space required

2.2 The procedure to install Scilab on Ubuntu Linux OS using official Scilab website

1. Note that this procedure does not actually install Scilab in your OS. It rather guides you to setup and run a portable copy of Scilab.
2. Open your browser and go to `www.scilab.org`
3. Go to the `Download` menu and locate the Software versions.
4. Click on Scilab 6.1.0.
5. Under the GNU/Linux menu, select the 32 bits or 64 bits installation depending on your system requirement. This will start the download.
6. After the download is complete, go to the directory where you have downloaded the file.
7. To extract its content right-click on this tar file. From the context menu select `Extract Here`.

8. Open the terminal by pressing `Ctrl + Alt + T` keys together.
9. Change the directory to the extracted Scilab `6.1.0` folder using the `cd` command. For example, `cd /home/User/Downloads/scilab-6.1.0.bin.linux-x86_64`
   Note: In the above command, `User` has to be replaced with the username for your system. It also assumes that the file is stored inside the `Downloads` directory.
10. Then type `cd scilab-6.1.0/bin` and press `Enter`.
11. Then type `./scilab` and press `Enter`. This will open the `Scilab` console.
12. Be careful not to close the linux terminal while using Scilab because it will close Scilab as well.

3 Checking for successful installation of Scilab

1. Start Scilab
2. Type the command `2+2` on the scilab console and press `Enter`. It should return `4`.
3. Type the command `plot()` on the scilab console and press `Enter`. It should open a plot window with two subplots. It should show some demo plots.
4. Type `xcos("SCI/modules/xcos/demos/bounce.zcos")` on the scilab console and press `Enter`. It should open a new xcos window and show the corresponidng xcos diagram.
5. Then you have to run the xcos file and expect the bouncing ball animation to start. To do so, on the xcos window menu bar, click on the `simulation menu` and click on `start`.
6. This will open a new window showing the bouncing ball animation.
7. To stop the simulation, on the xcos window menu bar, click on the `simulation menu` and click on `stop`.
8. Close Scilab.