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Ex – 06
Verifying the RPi.GPIO Library
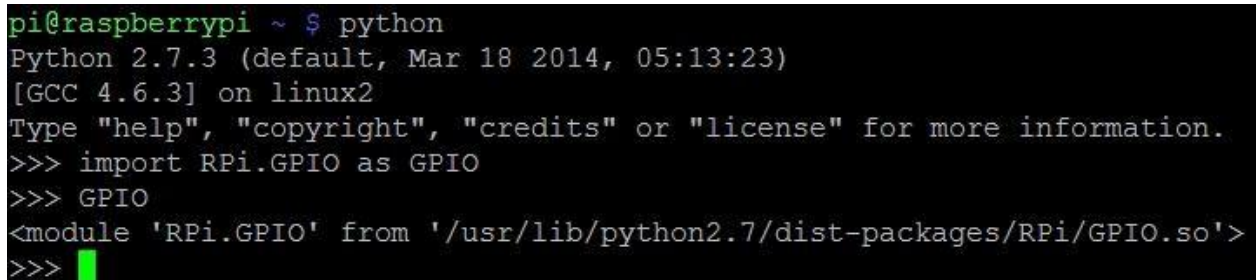
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Problem

To access Raspberry Pi GPIO, we can use several GPIO libraries.

Solution

If you are working with Python, Raspbian will have already installed the RPi.GPIO library to access Raspberry Pi GPIO.

Discussion

You can verify the RPi.GPIO library from a Python terminal by importing the RPi.GPIO module, as shown in the following screenshot:

```
pi@raspberrypi ~ $ python
Python 2.7.3 (default, Mar 18 2014, 05:13:23)
[GCC 4.6.3] on linux2
Type "help", "copyright", "credits" or "license" for more information.
>>> import RPi.GPIO as GPIO
>>> GPIO
<module 'RPi.GPIO' from '/usr/lib/python2.7/dist-packages/RPi/GPIO.so'>
>>>
```

If you don't find this library on Python runtime or get the error message **ImportError: No module named RPi.GPIO,** you can install it by compiling from the source code. For instance, we want to install RPi.GPIO 0.5.11, so type the following commands:

pi@raspberrypi   ~ $ wget
https://pypi.python.org/packages/source/R/RPi.GPIO/RPi.GPIO-
0.5.11.tar.gz

pi@raspberrypi   ~ $ tar -xvzf RPi.GPIO-0.5.11.tar.gz

pi@raspberrypi   ~ $ cd RPi.GPIO-0.5.11/

pi@raspberrypi   ~ $ sudo python setup.py install