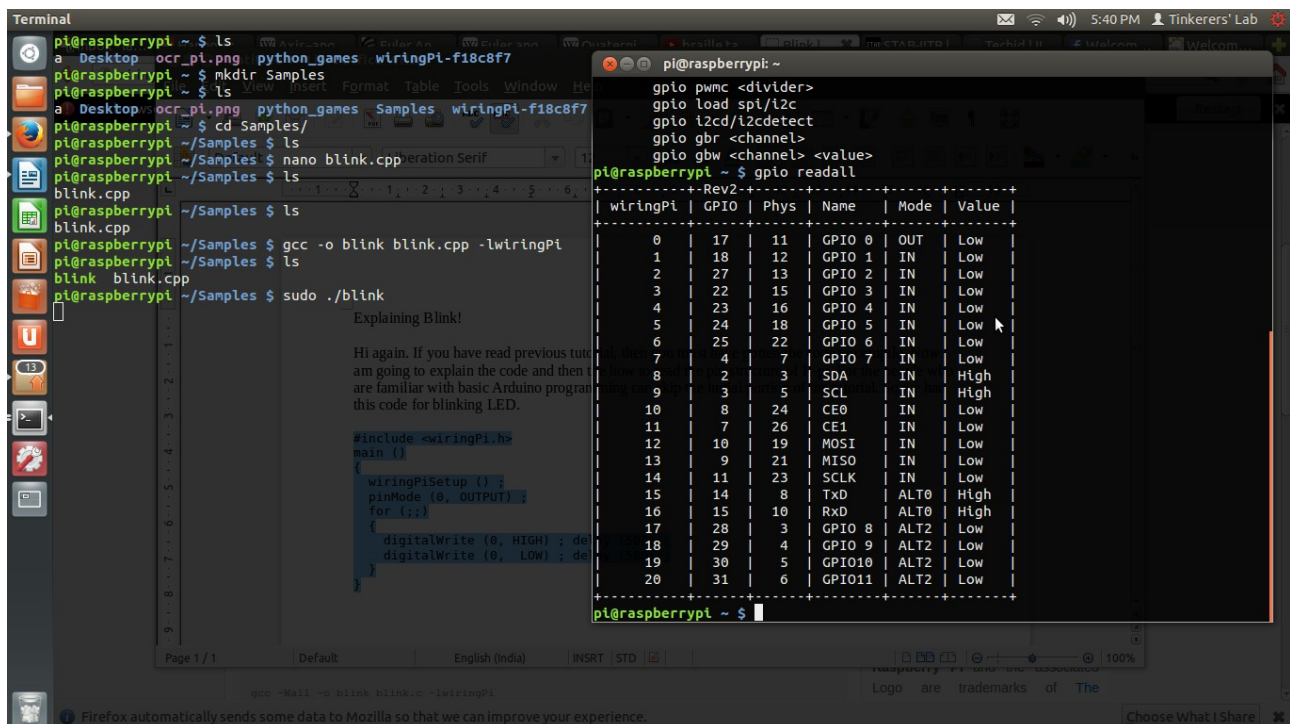


## Explaining Blink!

Hi again. If you have read previous tutorial, then you must have gotten the code to compile. Now I am going to explain the code and then the how to read the pin structure of R-pi. For the people who are familiar with basic Arduino programming can skip the final portion of the tutorial. So we had this code for blinking LED.

```
#include <wiringPi.h>
main ()
{
  wiringPiSetup () ;
  pinMode (0, OUTPUT) ;
  for (;;)
  {
    digitalWrite (0, HIGH) ; delay (500) ;
    digitalWrite (0, LOW) ; delay (500) ;
  }
}
```

Let us execute it. You must have done till here, and in separate terminal open up gpio readall.



As you can see on the pin out you need GPIO 0 as in your code, that corresponds to the pin number 11. Counting is alternate. Attach an LED across pin11 and ground, and it should blink! Voila.

Now let me explain you the code.

1) You have to include the wiringPi.h library in all your codes as it contains all the commands linking your code to an hardware output.

2) wiringPiSetup() This initialises **wiringPi** and assumes that the calling program is going to be using the **wiringPi** pin numbering scheme. This is a simplified numbering scheme which provides a mapping from virtual pin numbers 0 through 16 to the real underlying Broadcom GPIO pin numbers.

3) All other command are self-explanatory, pinMode sets the pin for OUTPUT or INPUT, digitalWrite write the logic 1 or 0 to the pin. Delay gives the delay in milliseconds.

Thats it, we will cover more topics in the coming tutorials.

Till then something to explore, wiringPi has an excellent GPIO utility, which allows you to do many things just using simple terminal commands. Here is the link

<http://wiringpi.com/the-gpio-utility/>

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