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Guide#raspiSerie_00_HI_PI
Hello Pi!!! - 00 # raspiSerie
1-Install arduino in Raspian:
sudo apt-get update
sudo apt-get install arduino
sudo usermod -a -G tty pi
sudo usermod -a -G dialout pi
2-Finding the Serial Port:
ls /dev/tty*
3-Talking in serial:
Open the Arduino IDE:
void setup() {
    Serial.begin(9600);
void loop() {
    for (byte n = 0; n < 255; n++) {
      Serial.write(n);
      delay(50);
  }
}
4- Digital Output:
root@raspberrypi:/home/pi# echo 25 > /sys/class/gpio/export
root@raspberrypi:/home/pi# cd /sys/class/gpio/gpio25
root@raspberrypi:/sys/class/gpio/gpio25# ls
active low direction edge power subsystem uevent value
root@raspberrypi:/sys/class/gpio/gpio25# echo out > direction
root@raspberrypi:/sys/class/gpio/gpio25# echo 1 > value
root@raspberrypi:/sys/class/gpio/gpio25# echo 0 > value
5- Digital Input: Reading a Button:
root@raspberrypi:/sys/class/gpio/gpio25# echo 24 > /sys/class/gpio/export
root@raspberrypi:/sys/class/gpio/gpio25# cd /sys/class/gpio/gpio24
root@raspberrypi:/sys/class/gpio/gpio24# echo in > direction
root@raspberrypi:/sys/class/gpio/gpio24# cat value
```

## Guide\_arduSerie\_15\_HelloPi 6- Installing and Testing GPIO in Python and Blinking an LED with Python: pi@raspberrypi ~ \$ sudo python try importing the module: >>> import RPi.GPIO as GPIO If you don't get an error, you're all set. import RPi.GPIO as GPIO import time GPIO.setmode(GPIO.BCM) GPIO.setup(25, GPIO.OUT) while True: GPIO.output(25, GPIO.HIGH) time.sleep(1)

GPIO.output(25, GPIO.LOW)

time.sleep(1)