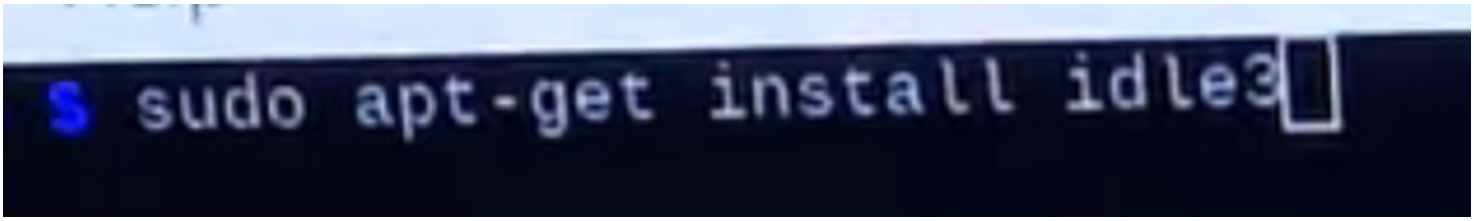
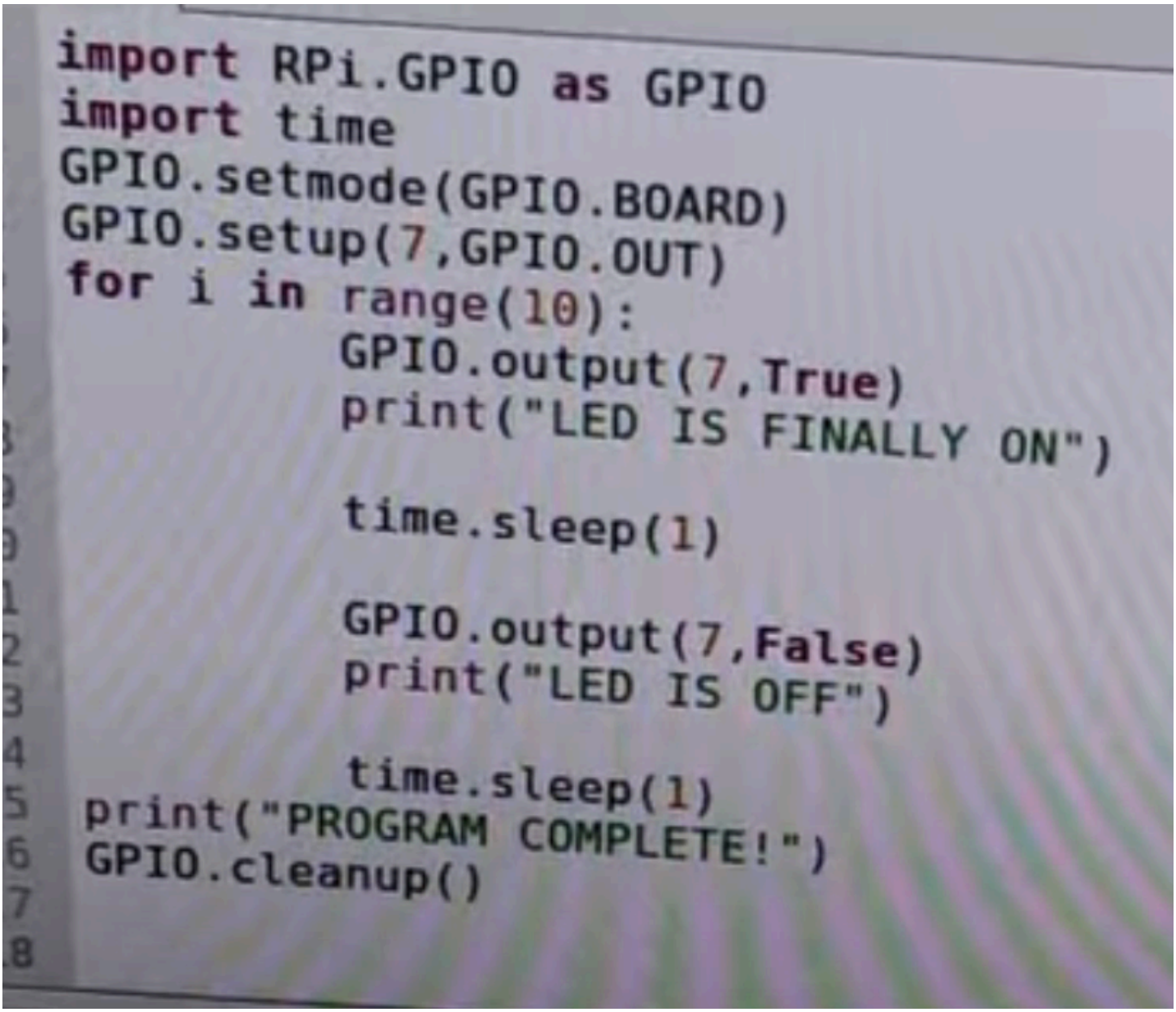

In an electrolytic cell, the anode is positive and the cathode is negative

**To install python ide if thonny is not there we can install by this way :**



## Blinking led code easy and simple



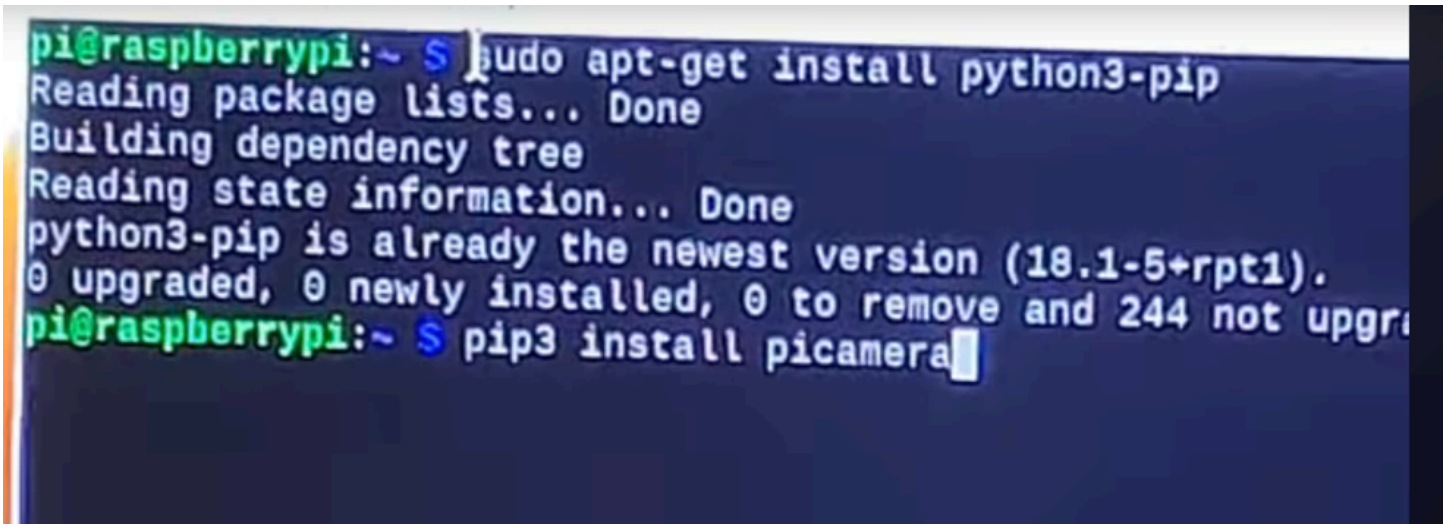
```
import RPi.GPIO as GPIO
import time
GPIO.setmode(GPIO.BOARD)
GPIO.setup(7,GPIO.OUT)
for i in range(10):
        GPIO.output(7,True)
        print("LED IS FINALLY ON")

        time.sleep(1)

        GPIO.output(7,False)
        print("LED IS OFF")

        time.sleep(1)
print("PROGRAM COMPLETE!")
GPIO.cleanup()
```

camera module sits in CSI connector CSI (Camera Serial Interface)



```
pi@raspberrypi:~ $ sudo apt-get install python3-pip
Reading package lists... Done
Building dependency tree
Reading state information... Done
python3-pip is already the newest version (18.1-5+rpt1).
0 upgraded, 0 newly installed, 0 to remove and 244 not upgr
pi@raspberrypi:~ $ pip3 install picamera
```

camera mdoule  but image capturecode

```
import time
from picamera import PiCamera
camera = PiCamera()
camera.resolution = (1280,720)
camera.start_preview()
time.sleep(5)
camera.capture('/home/pi/Desktop/ty1.jpg')
camera.stop_preview()
```

camera module but video recording

File Edit Format Run Options Window Help

```
import time
from picamera import PiCamera
camera = PiCamera()
camera.start_preview()
camera.start_recording('/home/pi/Desktop/video1.h264')
camera.wait_recording(5)
camera.stop_recording()
print("Finished Recording")
```

if the recoridng doesnt stop its a glitch just do ctrl + c