```
1 import RPi.GPIO as GPIO
2 import time
3 GPIO.setmode(GPIO.BOARD)
4 GPIO.setup(11,GPIO.OUT)
5 GPIO.output(11,1)
6 time.sleep(1)
7 GPIO.output(11,0)
8 time.sleep(1)
9 GPIO.output(11,1)
10 time.sleep(1)
11 GPIO.output(11,0)
12 time.sleep(1)
13 GPIO.cleanup()
14
```

Shell

```
led1.py:4: RuntimeWarning: This channel is already in use, continuing anyway. Use GPIO.s
    GPIO.setup(11,GPIO.OUT)
>>>

Python 3.7.3 (/usr/bin/python3)
>>> %Run led1.py
```
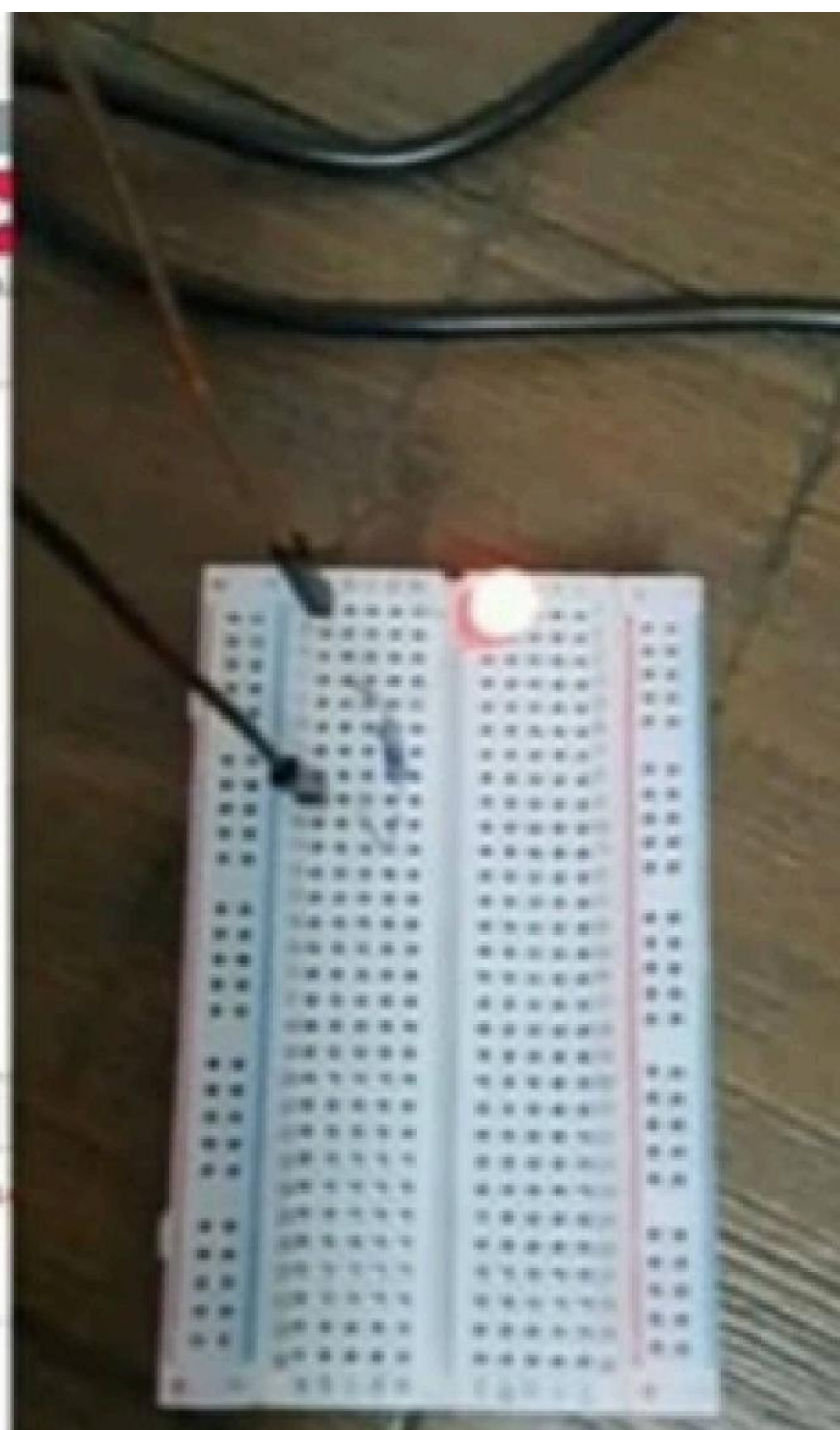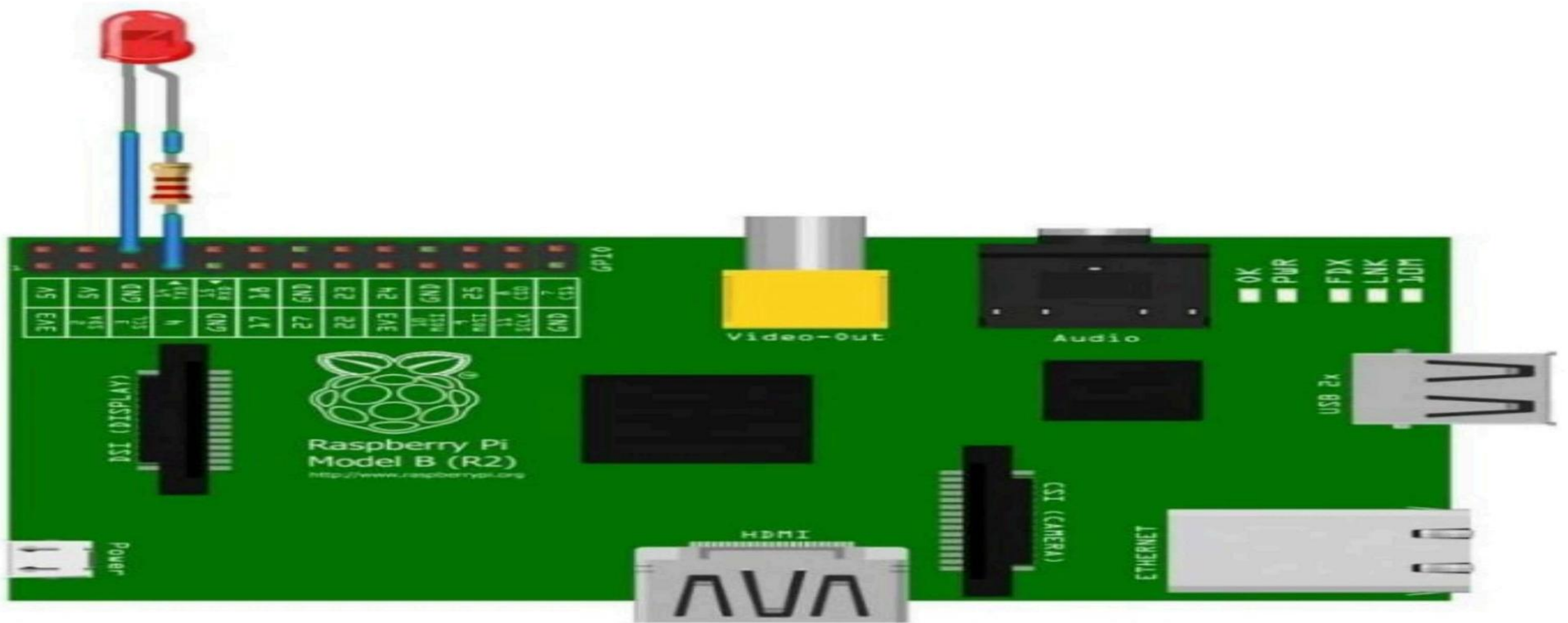
# Circuit Diagram

- Connect the Led to 6 (ground) and 11 (gpio) with a 100Ω resistor in series



Connecting LED to Raspberry Pi

```python
import time

important RPi. GPIO as GPIO        ## Important GPIO

GPIO. Setmode(GPIO.BOARD)          ## Use board p

GPIO. Setup(11, GPIO. OUT)         ## Setup GPIO

while True:

    GPIO. Output(11, True)         ## Turn on led

    time . sleep(1)                ## Wait for on

    GPIO. output(11,False)         ## Turn off led

    time . sleep(1)                ## Wait for on
```

```python
import RPi. GPIO as IO        # calling header file for GPIO's  of PI
import time                   # calling for time to provide delays in
program
IO. setmode (IO.BOARD)   # programming the GPIO by BOARD pin number,
GPIO21 is called as

PIN40
IO. setup(40, IO. OUT)        # initialize digital pin40 as on output.
IO. Output(40, 1)             # turn the LED off (making the voltage
level HIGH)
time. sleep(1)                # sleep for a second
IO. cleanup (1)               # turn the LED off (making all the output
pins LOW)
time. sleep(1)                # sleep for a second
# loop is executed second time
IO. setmode (IO.BOARD)
IO. setup(40, IO. OUT)
IO. output(40, 1)
Time. sleep(1)
IO. cleanup ()
time . sleep(1)

# loop is executed third time
IO. setmode (IO.BOARD)
IO. setup (40, IO. OUT)
IO. output(40, 1)
time. sleep(1)
IO. cleanup()
time. sleep(1)
```