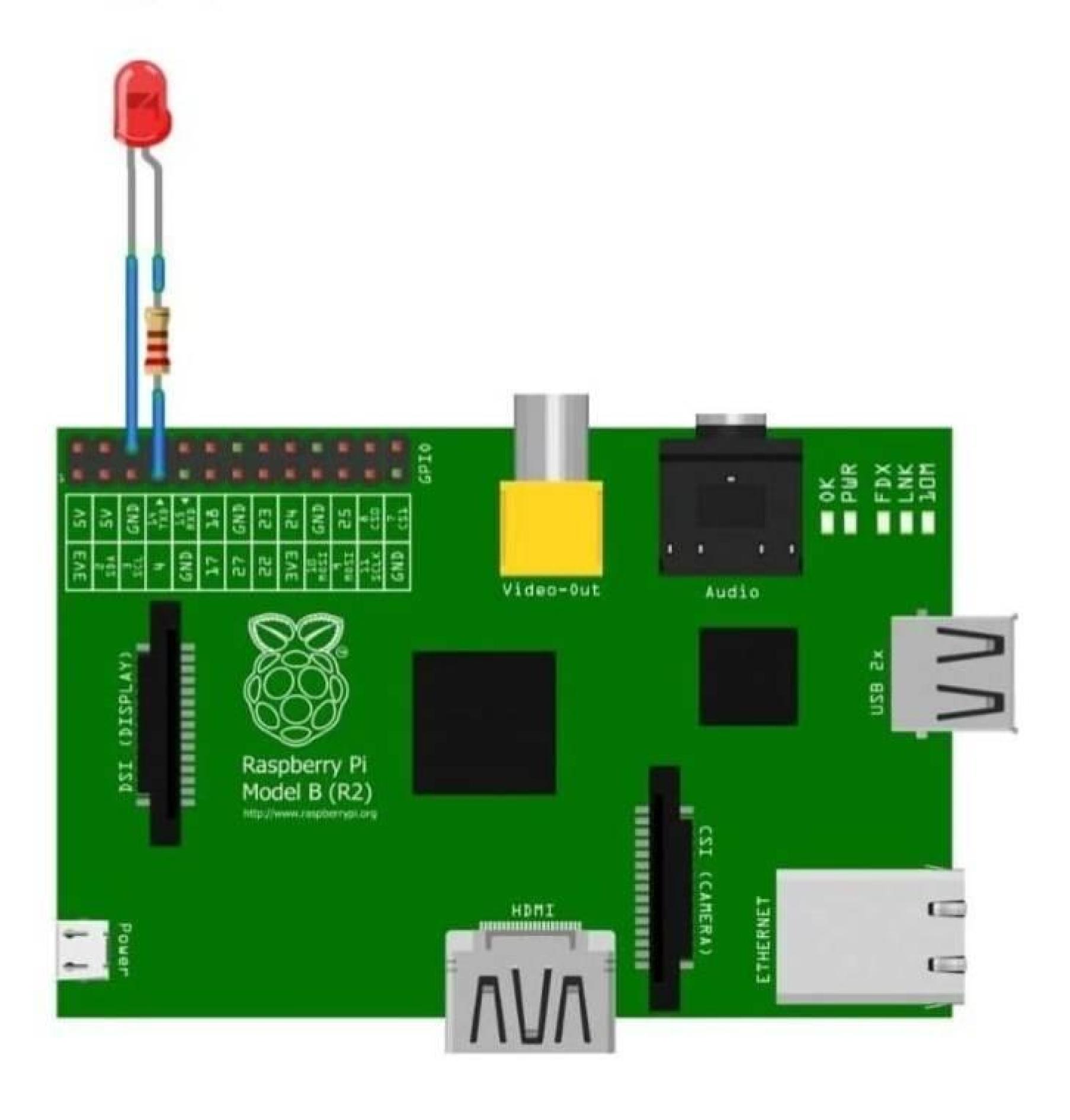


Circuit Diagram

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



Connecting LED to Raspberry Pi

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

```
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.
                                # turn the LED off (making the voltage
IO. Output(40, 1)
level HIGH)
                                    # sleep for a second
time. sleep(1)
                                # turn the LED off (making all the output
IO. cleanup (1)
pins LOW)
                                  # sleep for a second
time. sleep(1)
# 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)
10. setup (40, 10. OUT)
IO. output(40, 1)
time. sleep(1)
IO. cleanup()
time. sleep(1)
```