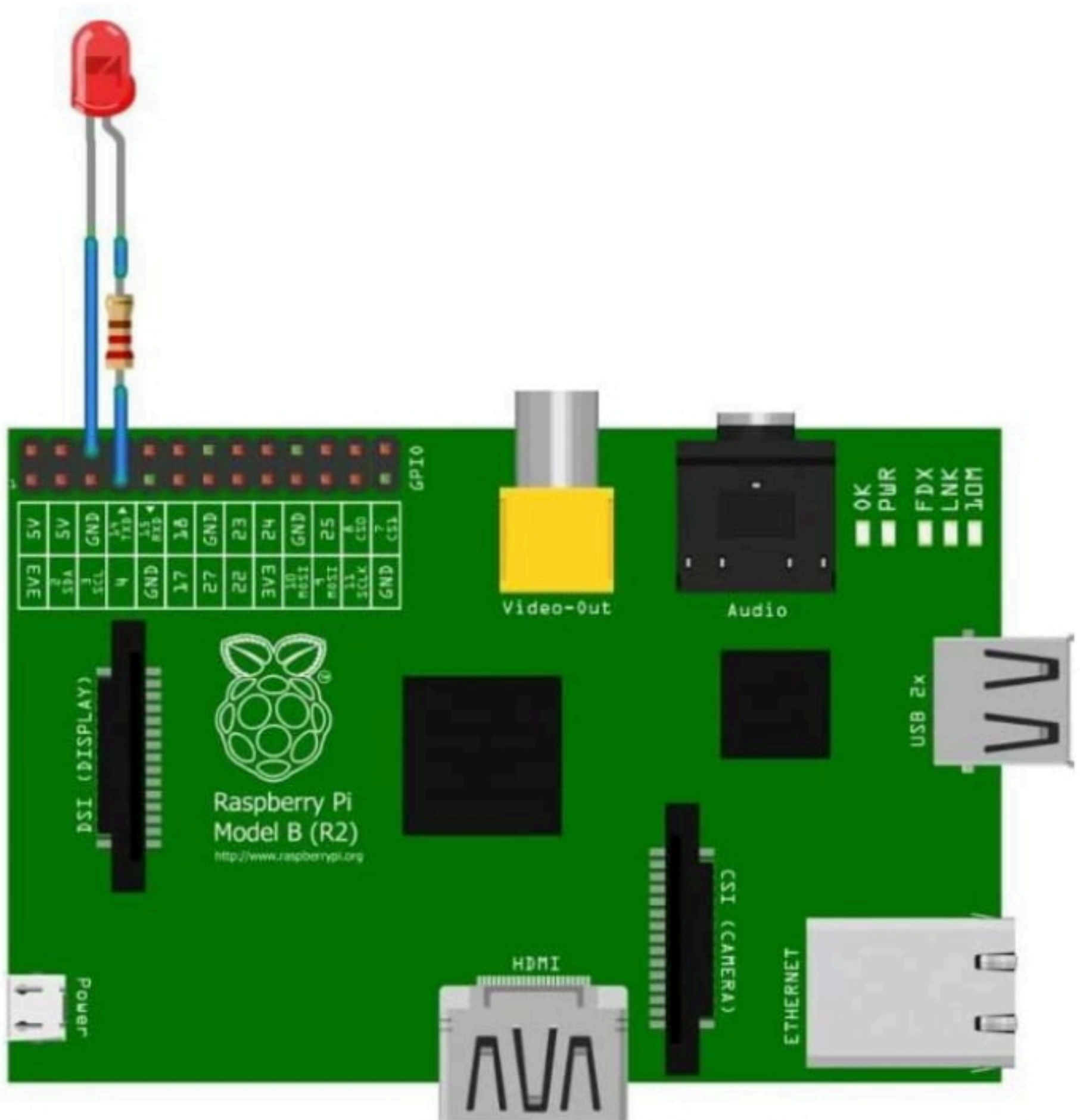


Circuit Diagram

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



Connecting LED to Raspberry Pi

```
import time
```

```
import 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.

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)

```