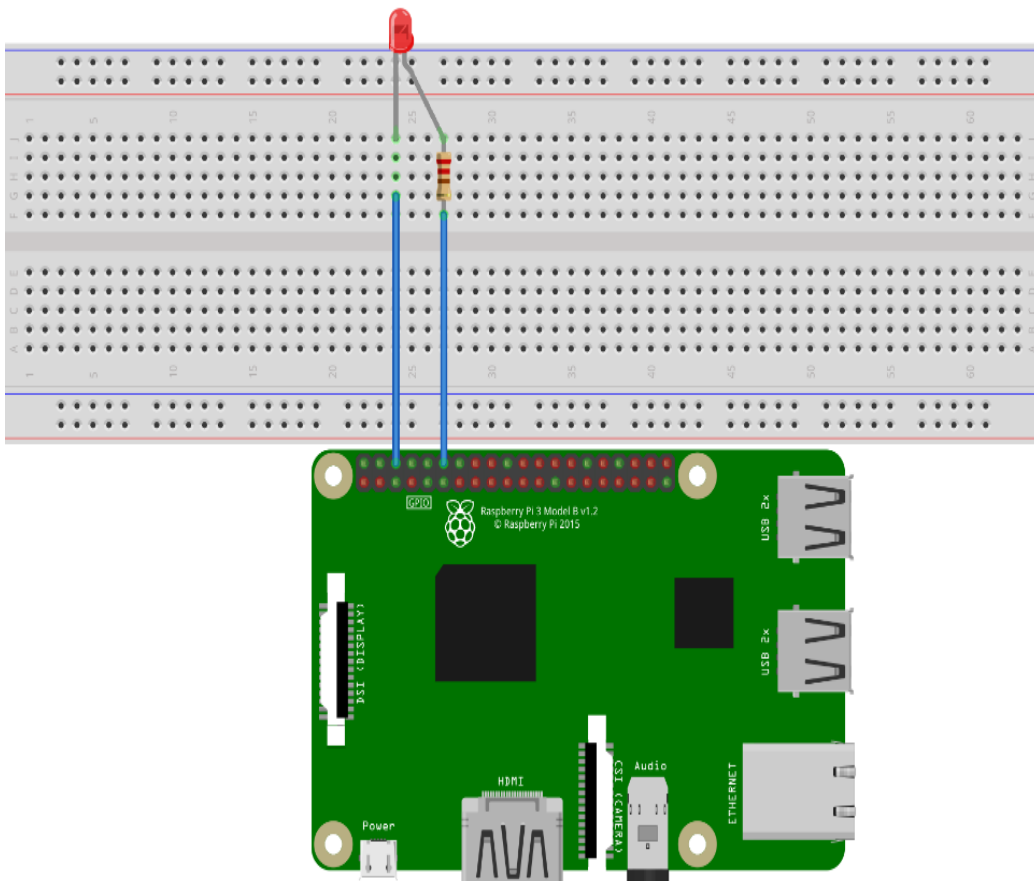# Assignment – 3

**Write python code for blinking LED and traffic lights for Raspberry pi.**

from gpiozero import LED          # importing GPIO pins as

LED from time import sleep          # importing time

function as sleep red = LED(18)          # red

LED is connected to GPIO 18

 while True:          #

infinite loop

    red.on()          # red LED is on for 1

second        sleep(1)

    red.off()          # red led is off for 1 second

sleep(1)

**Circuit : LED blinking**

## PYTHON CODE TRAFFIC LIGHT FOR RASPBERRY

```
FROM GPIOZERO IMPORT LED                    # IMPORTING GPIO PINS
AS LED FROM TIME IMPORT SLEEP                              #
IMPORTING TIME FUNCTION AS SLEEP RED = LED(23)
# RED LED CONNECTED TO GPIO 23 YELLOW = LED(07)
# YELLOW LED CONNECTED TO  GPIO 07 GREEN = LED(19)
# GREEN LED CONNECTED TO GPIO 19
WHILE TRUE:                                 # INFINE LOOP
RED.ON()                                    # RED LED IS ON FOR 5 SECONDS
TO  MAKE STOP        SLEEP(5)
 RED.OFF()
 YELLOW.ON()                                # YELLOW LED IS ON FOR 2 SECONDS TO
MAKE READY        SLEEP(2)
```

YELLOW .OFF

GREEN.ON()                                    #GREEN LED IS ON FOR 5 SECONDS TO
MAKE GO                SLEEP(5)

GREEN.OFF()