**Python code for Traffic light using rasbpery pi:**

**Import machine**

**Import utime**

**import\_thread**

led\_red=machine.Pin(15,machine.Pin.OUT)

led\_yellow=machine.Pin(14,machine.Pin.OUT)

led\_green=machine.Pin(13,machine.Pin.OUT)

button=machine.Pin(16,machine.Pin.IN)

**global**button\_status

button\_status=0

**def**button\_thread()

**global**button\_status

**while**True:

**if**button.value()==1:

button\_status=1

\_thread.start\_new\_thread(button\_thread,())

**while**True:

**if**button\_status==1:

led\_red.value(1)

utime.sleep(10)

**global**button\_status

button\_status=0

led\_red.value(1)

utime.sleep(5)

led\_red.value(0)

led\_yellow.value(1)

utime.sleep(2)

led\_yellow.value(0)

led\_green.value(1)

utime.sleep(5)

led\_green.value(0)

led\_yellow.value(1)

utime.sleep(2)

led\_yellow.value(0)

**Python code for Blinking LED usingraspbery pi:**

import RPi.GPIO as GPIO # Import Raspberry Pi GPIO library

from time import sleep # Import the sleep function from the time module

GPIO.setwarnings(False) # Ignore warning for now

GPIO.setmode(GPIO.BOARD) # Use physical pin numbering

GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)

while True: # Run forever

GPIO.output(8, GPIO.HIGH) # Turn on

sleep(1) # Sleep for 1 second

GPIO.output(8, GPIO.LOW) # Turn off

sleep(1) # Sleep for 1 second