Blinking of Led

```
import RPi.GPIO as GPIO
import time
GPIO.setmode(GPIO.BOARD)
GPIO.setup(7,GPIO.OUT)
while True:
    GPIO.output(7,GPIO.HIGH)
    time.sleep(1)
    GPIO.output(7,GPIO.HIGH)
    time.sleep(1)
GPIO.cleanup()
```

irBUZZER

```
import RPi.GPIO as GPIO
import time
GPIO.setmode(GPIO.BOARD)
GPIO.setwarnings(False)
GPIO.setup(8,GPIO.IN)
GPIO.setup(36,GPIO.OUT)

while True:
    if GPIO.input(8)==1:
        GPIO.output(36,GPIO.LOW)
        print("ir buzzer is detected")
        time.sleep(0.5)
    else:
        GPIO.output(36,GPIO.HIGH)
        time.sleep(0.5)
```

Temperature Sensor

```
import RPi.GPIO as GPIO
from smbus import SMBus
import time
GPIO.setmode(GPIO.BOARD)
GPIO.setup(7,GPIO.OUT)
led=[15,16,18,19,21,22,23,24]
for i in range(8):
   GPIO.setup(led[i],GPIO.OUT)
bus=SMBus(3)
bus.write_byte(0*48,0)
last_reading=-1
p=GPIO.PWM(7,100)
p.start(0)

while(0==0):
   reading=bus.read_byte(0*48)
   if(reading!=last_rading):
      write=(255/1023)*reding
      print('output',+str(reading))
   last_reading=reading
   if(reading<27):          #ChangeDutyCycle sagalikade
      p.ChangeCycleDuty(0)
      GPIO.output(led[0],GPIO.HIGH)
      time.sleep(0.05)
   if(reading>30):
```

```
    p.ChangeCycleDuty(20)
    GPIO.output(led[1],GPIO.HIGH)
    GPIO.output(led[0],GPIO.HIGH)
    time.sleep(0.05)
if(reading>35):
    p.ChangeCycleDuty(30)
    GPIO.output(led[2],GPIO.HIGH)
    time.sleep(0.05)
if(reading>40):
    p.ChangeCycleDuty(40)
    GPIO.output(led[3],GPIO.HIGH)
    time.sleep(0.05)
if(reading>45):
    p.ChangeCycleDuty(50)
    GPIO.output(led[4],GPIO.HIGH)
    time.sleep(0.05)
if(reading>50):
    p.ChangeCycleDuty(65)
    GPIO.output(led[5],GPIO.HIGH)
    time.sleep(0.05)
if(reading>65):
    p.ChangeCycleDuty(85)
    GPIO.output(led[6],GPIO.HIGH)
    GPIO.output(led[5],GPIO.HIGH)
    time.sleep(0.05)
else:
```

```
        GPIO.output(led[6],GPIO.LOW)
        GPIO.output(led[7],GPIO.LOW)
        GPIO.output(led[0],GPIO.LOW)
        GPIO.output(led[1],GPIO.LOW)
        GPIO.output(led[2],GPIO.LOW)
        GPIO.output(led[3],GPIO.LOW)
        GPIO.output(led[4],GPIO.LOW)
        GPIO.output(led[5],GPIO.LOW)
        time.sleep(0.05)
GPIO.setwarnings(True)
```

FsWebcam

```
import os
imagename=input(“enter the name of image”)
Print(imgname)
os.system(‘fswebcam’+imagname)
```