


```
import time
import RPi.GPIO as GPIO

GPIO.setmode(GPIO.BOARD)
GPIO.setup(36,GPIO.IN)
GPIO.setup(40,GPIO.OUT)
GPIO.setup(37,GPIO.OUT)
GPIO.setwarnings(False)

while True:
    n=GPIO.input(36)
    if(n==0):
        print("OBJECT DETECTED...")
        GPIO.output(40,GPIO.HIGH)
        GPIO.output(37,GPIO.LOW)
        time.sleep(0.5)
    elif(n==1):
        print("OBJECT NOT DETECTED...")
        time.sleep(0.5)
        GPIO.output(40,GPIO.LOW)
        GPIO.output(37,GPIO.HIGH)
```



RPi GPIO connectors:

2 5V Power	4 5V Power	6 Ground	8 BCM 14	10 BCM 15	12 BCM 18	14 Ground	16 BCM 23	18 BCM 24	20 Ground	22 BCM 25	24 BCM 8	26 BCM 7	28 BCM 1	30 Ground	32 BCM 12	34 Ground	36 BCM 16	38 BCM 20	40 BCM 21
1 5V Power	3 BCM 2	5 BCM 3	7 BCM 4	9 Ground	11 BCM 17	13 BCM 27	15 BCM 22	17 5V Power	19 BCM 10	21 BCM 9	23 BCM 11	25 Ground	27 BCM 0	29 BCM 5	31 BCM 6	33 BCM 13	35 BCM 19	37 BCM 26	39 Ground

The diagram shows two rows of pins. The top row contains pins 2 through 40. The bottom row contains pins 1 through 39. Pins are color-coded: red for power (5V) or ground, green for BCM pin headers, and dark blue for other functions.