lecture 20

operational amplifier (op-amp)

transmitter

T

reciever

R

very small signal is recieved
so we have to amplify it first
to get powerful signal

[2v ~ 3.3v]

amplified output

Thats what we need :)

output1

v1 — input 1 (-)

v2 — input 1 (+)

gnd

IR - sensor

vcc — 3.3v

output 2

input 2 (-)

input 2 (+)
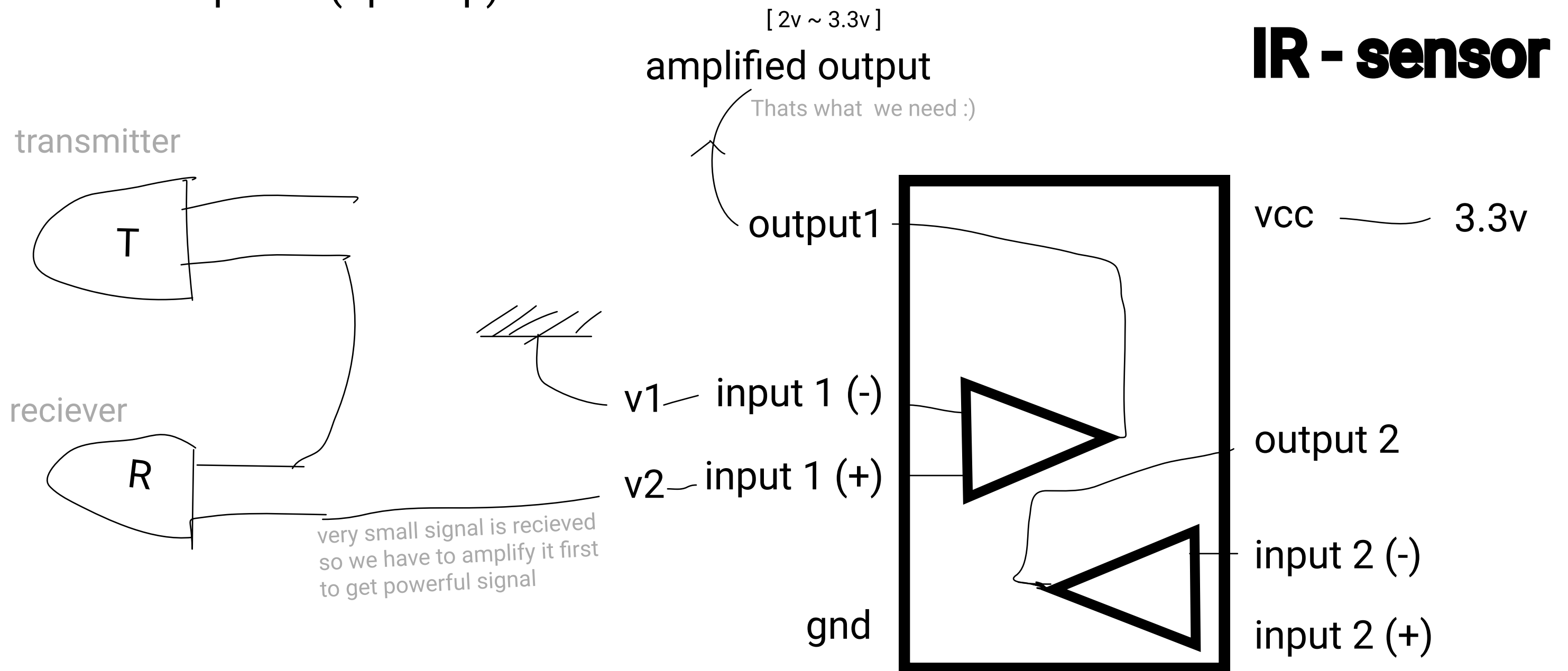
PROJECT

object counter system

1. check if seats are free in cinema hall or not.
2. check if there is free space in parking area
   using IR sensor.

nodeMCU

D4

GND

VCC

IR sensor

output
ground
VCC

R

T

inverted logic

active low logic

so if any object is in front of sensor,
it will give 0 and if there is no sensor
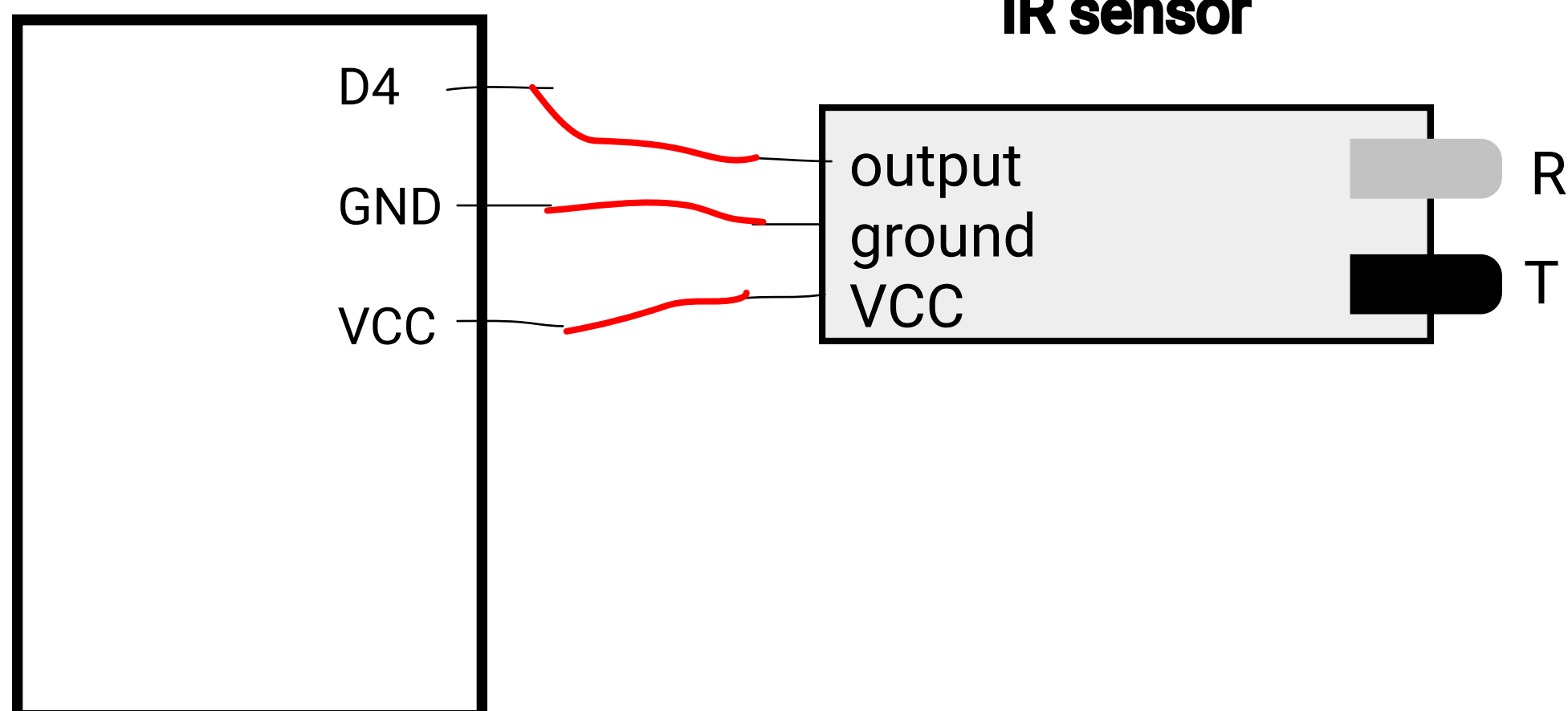is front of sensor, then we'll get 1.

1 => 0
0 => 1

object   -> 0
no object   -> 1

now to solve the confusion if altering
the values.
we will use, Z = !Z

~ by K. S.