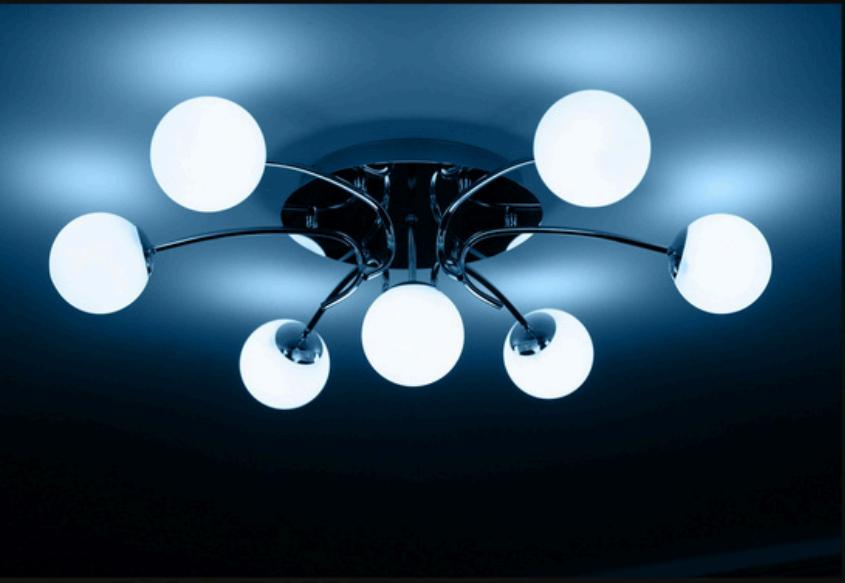
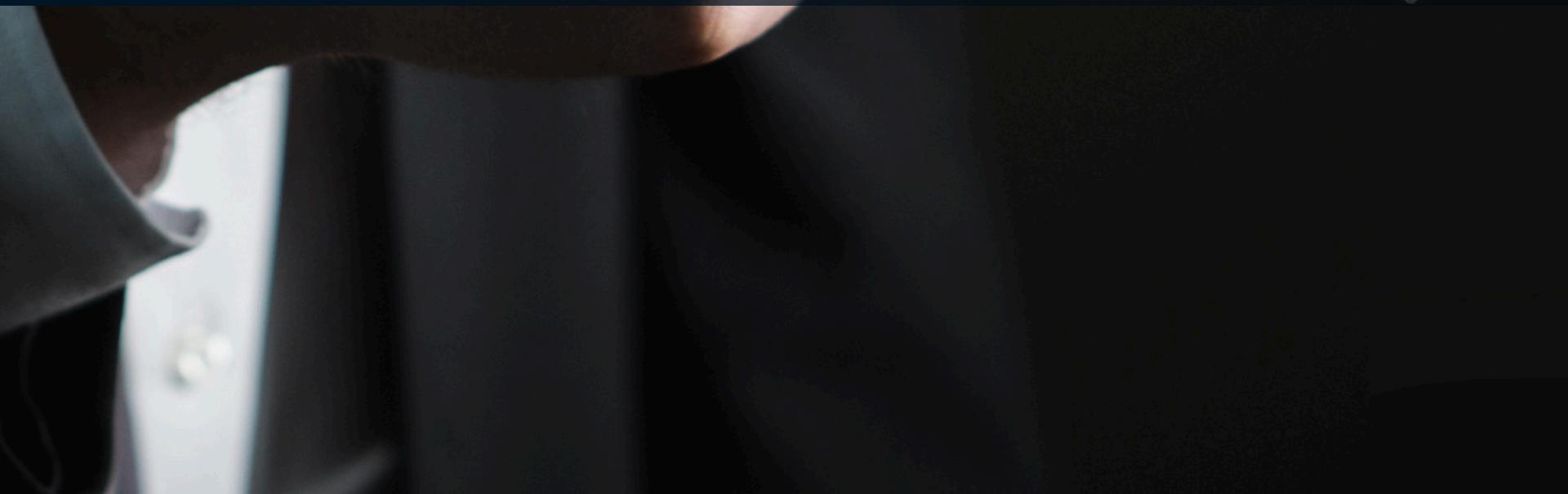




SMART HOME TECHNOLOGY



OUR TEAM

ALI SHERIF GAAFAR BELTAGY



HADEEL WAEL SALAH

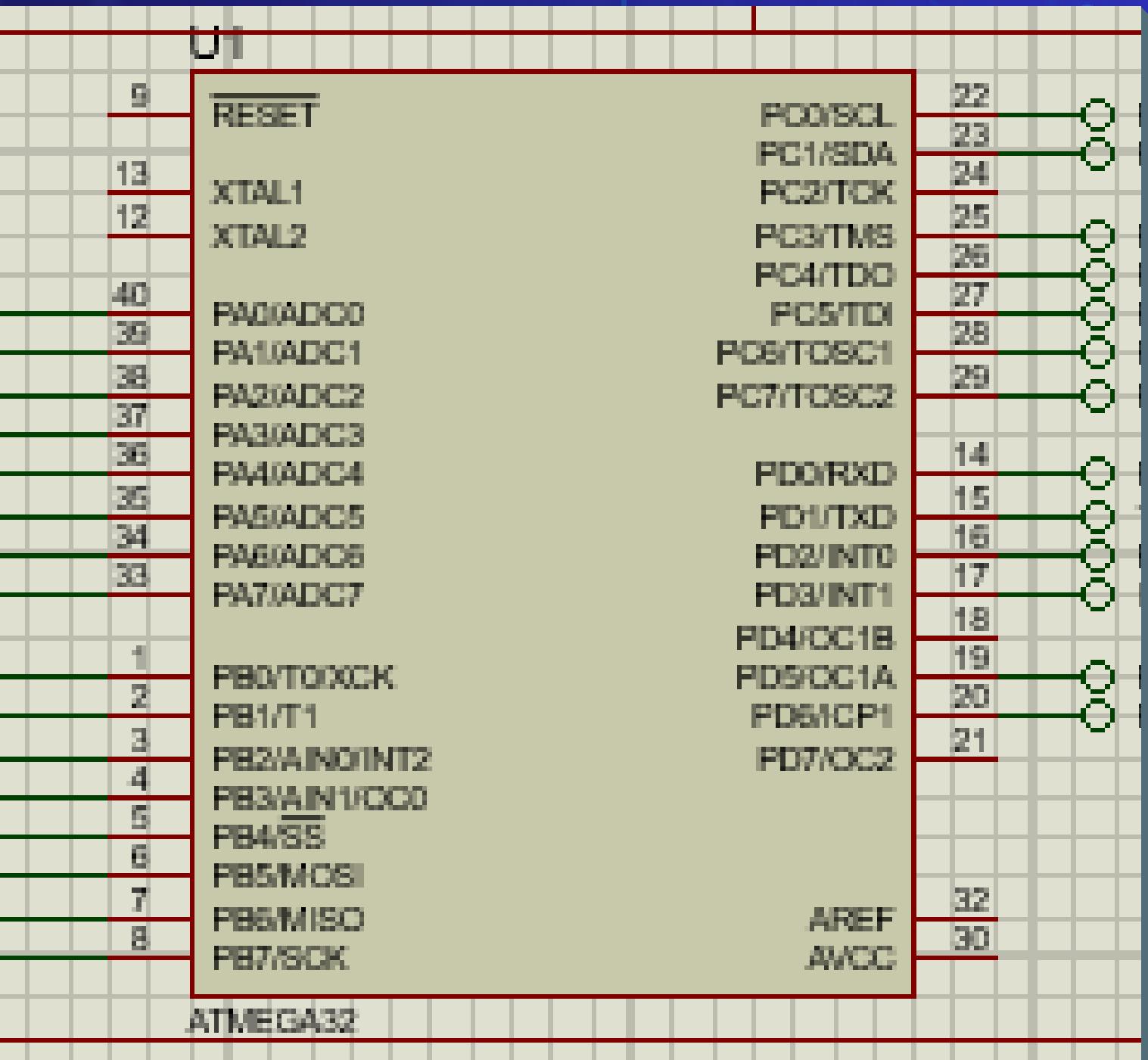
SALMA TAREK AHMED

NOUR ELDIN MAHMOUD

ABDELRAHMAN GALAL EL SAID

TAREK AHMED ELKFOURY

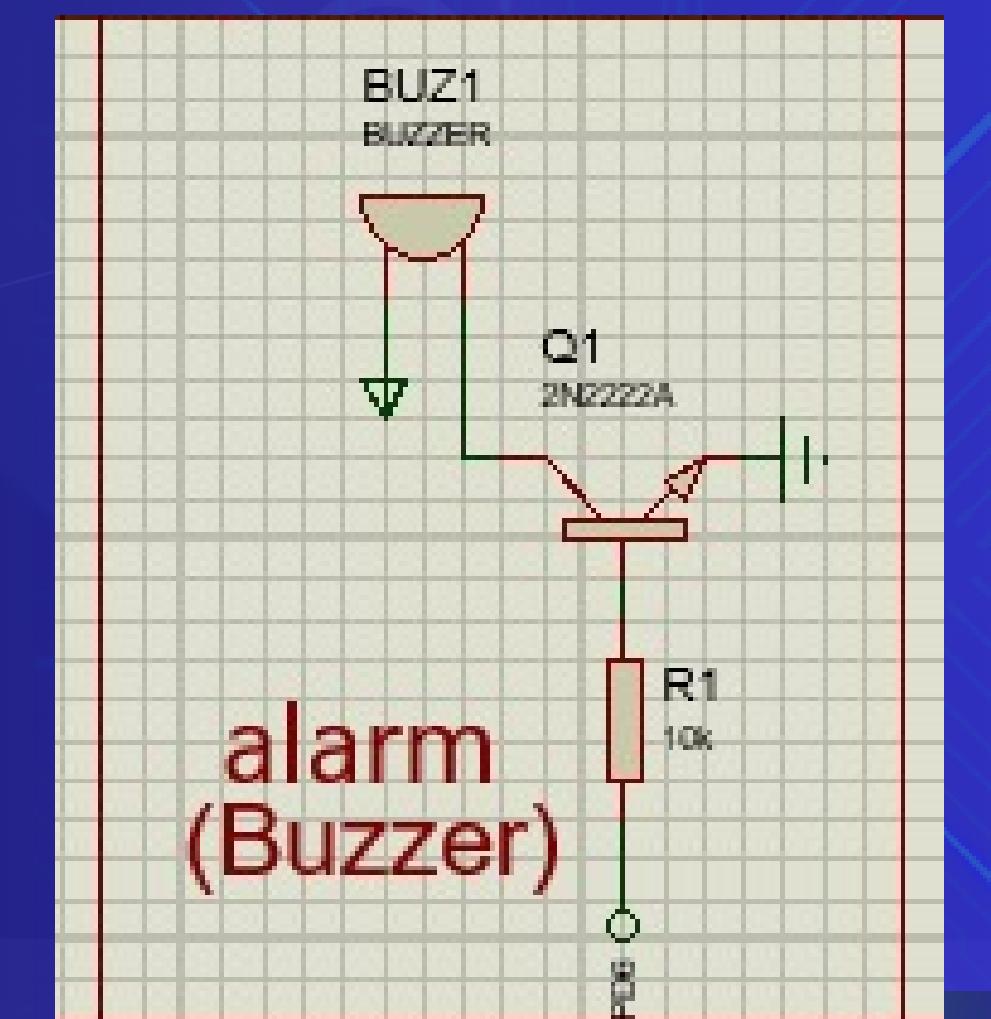
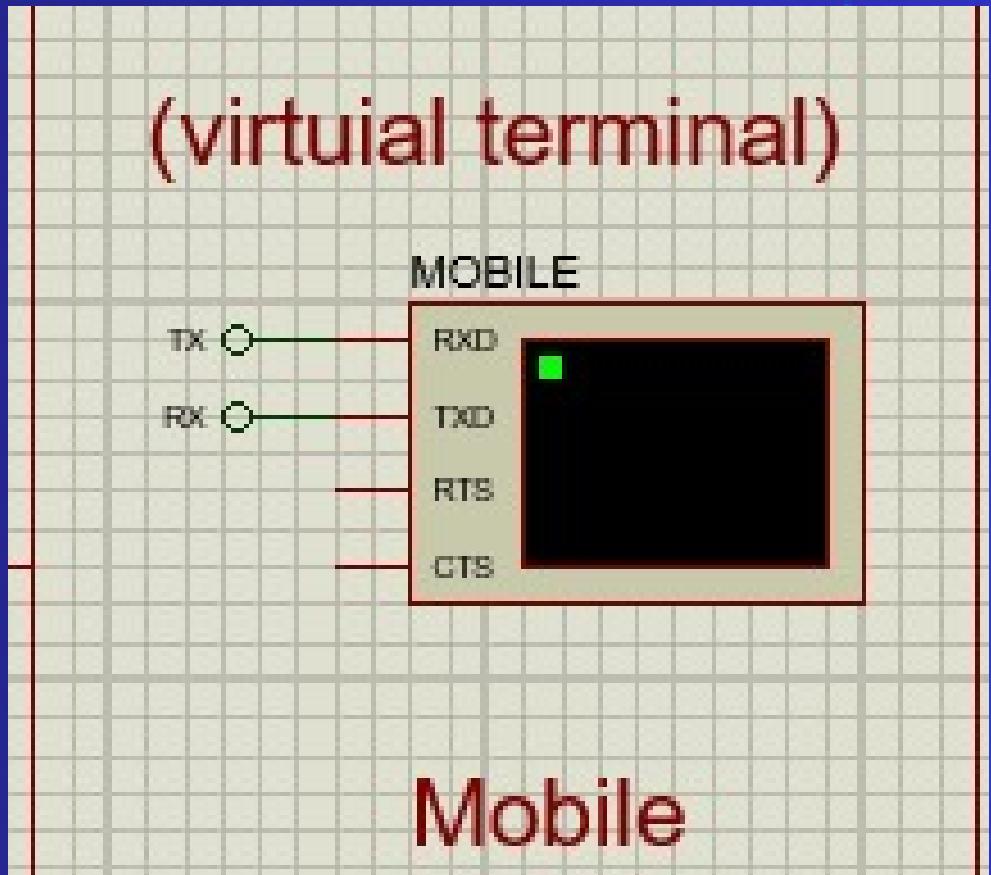
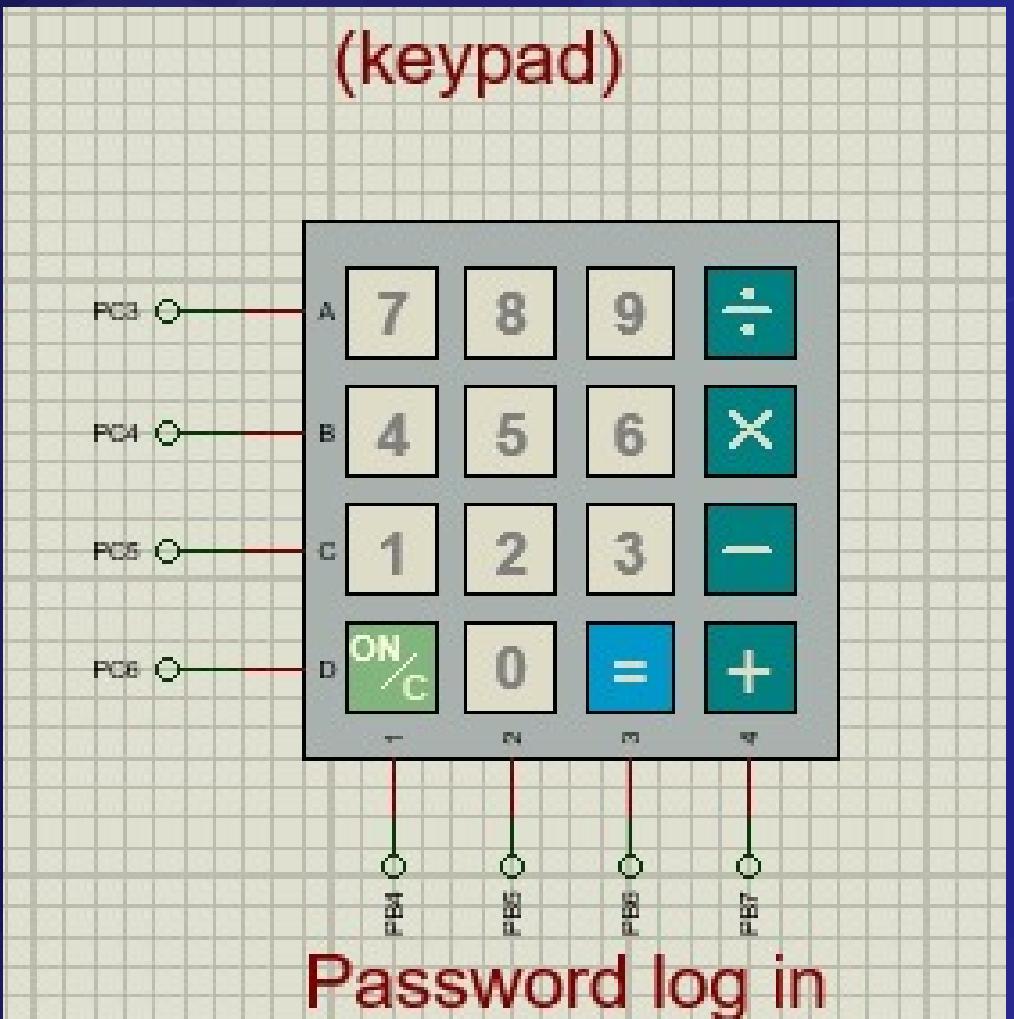
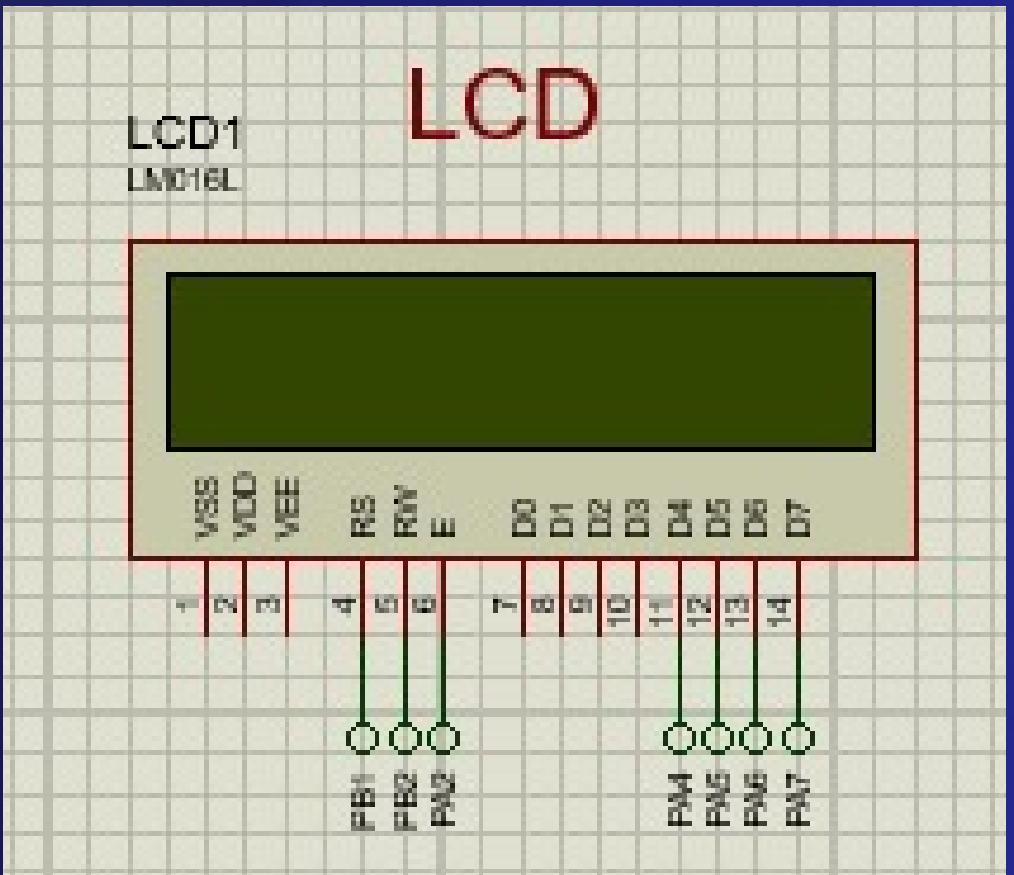
1- SMART HOME MICROCONTROLLER



2- LCD & KEYPAD

The first part of the system is the LCD and keypad, responsible for the user login process. If the correct password is entered, access to the system is granted. However, if an incorrect password is entered, the user is given three attempts to enter it correctly. If all three attempts fail, the alarm is automatically activated to alert the authorities.

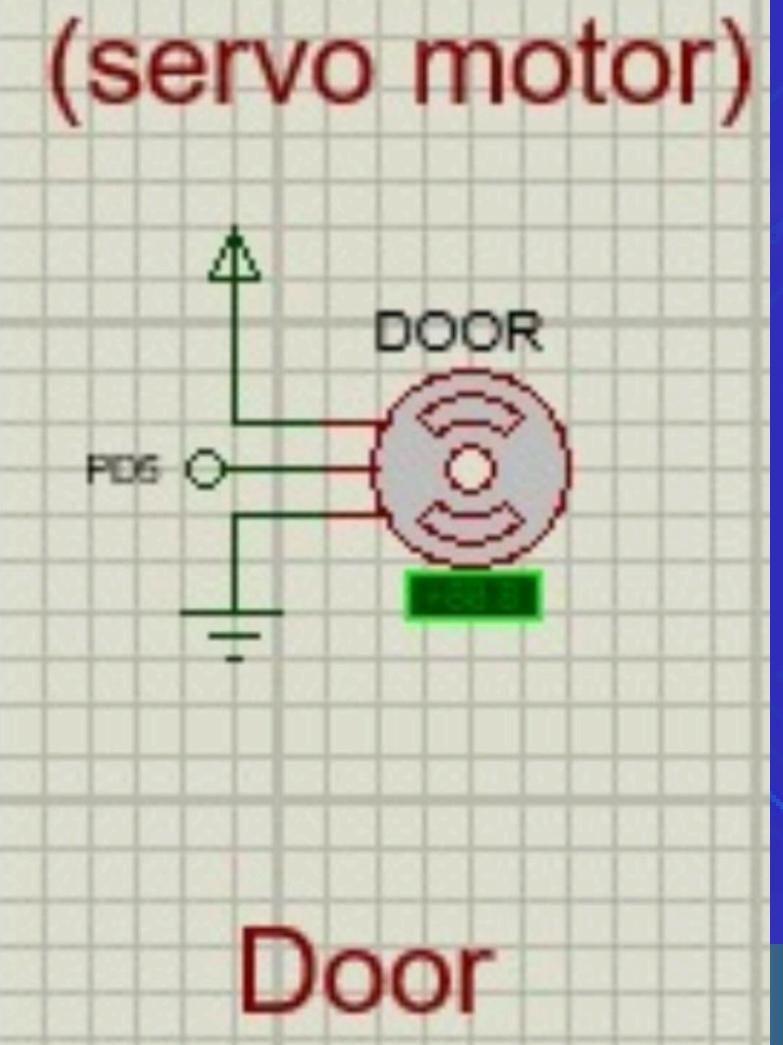
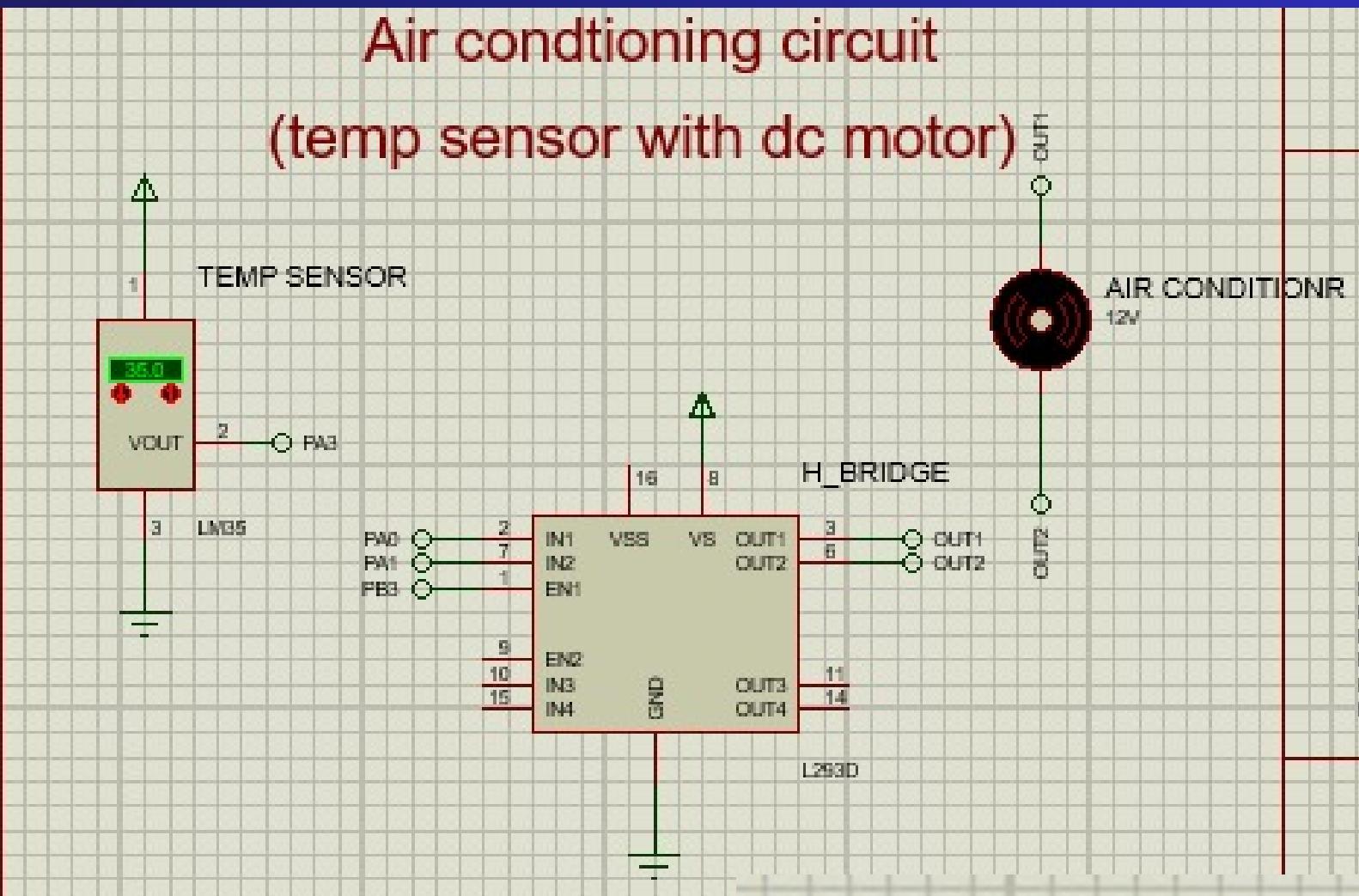
All messages and notifications must be displayed on the mobile or PC screen, such as: "Hello, please enter your username."



3- SENSOR & ACTUATORS

THE AC PART WORKS AS FOLLOWS:
WHEN THE SENSOR SENSES A
TEMPERATURE OF 39 AND ABOVE, IT
WORKS WITH 100% EFFICIENCY. IF THE
TEMPERATURE IS BETWEEN 38 AND 28,
IT WORKS WITH 75% EFFICIENCY. IF THE
TEMPERATURE IS BETWEEN 27 AND 18, IT
WORKS WITH 30% EFFICIENCY. IF IT IS
LESS THAN THIS, IT STOPS WORKING.

As for the door part, it is connected to
a servo motor that opens when the
system is successfully entered.



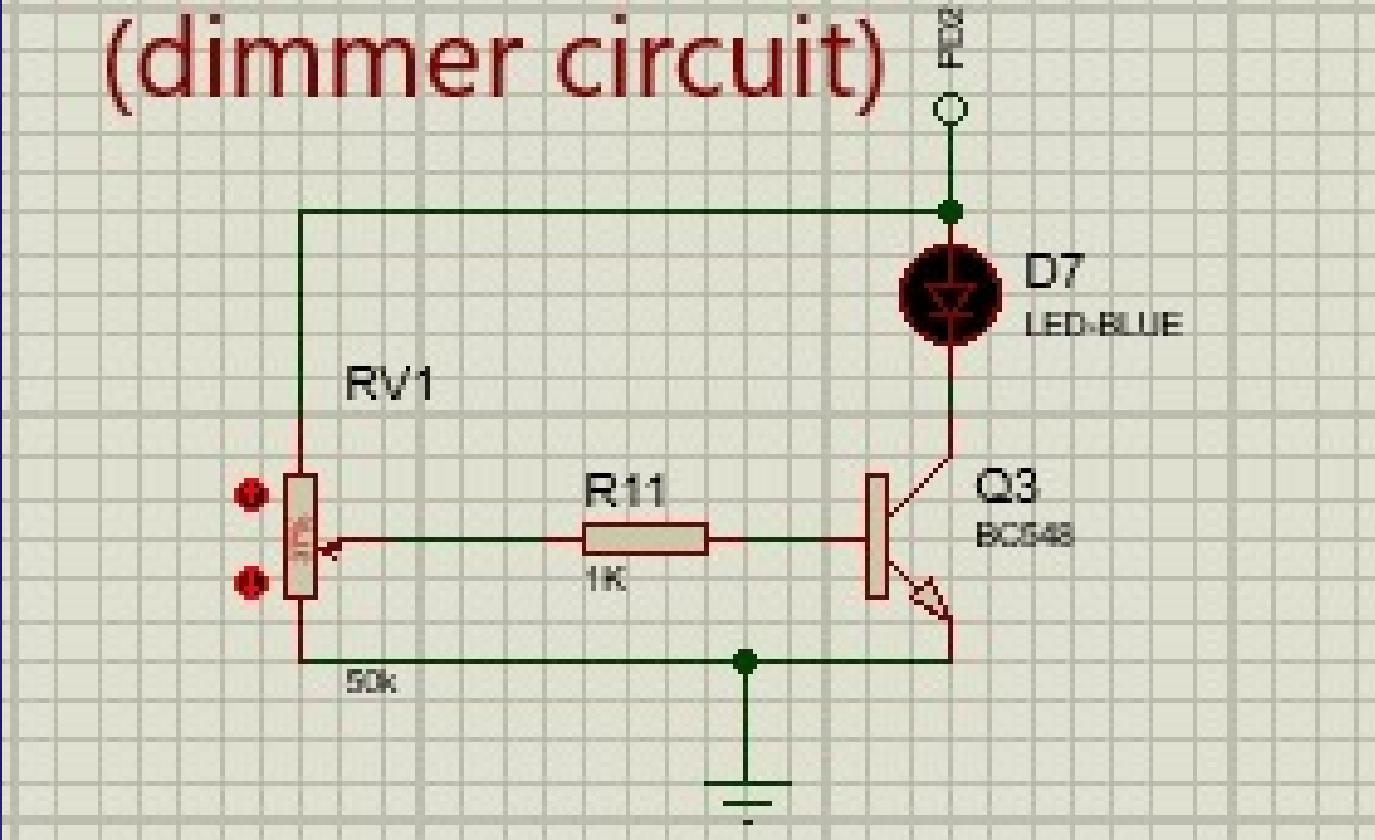
4- LED CONTROL

The controllable things are 6 lamps “5 on/off lamps, one dimming lamp”

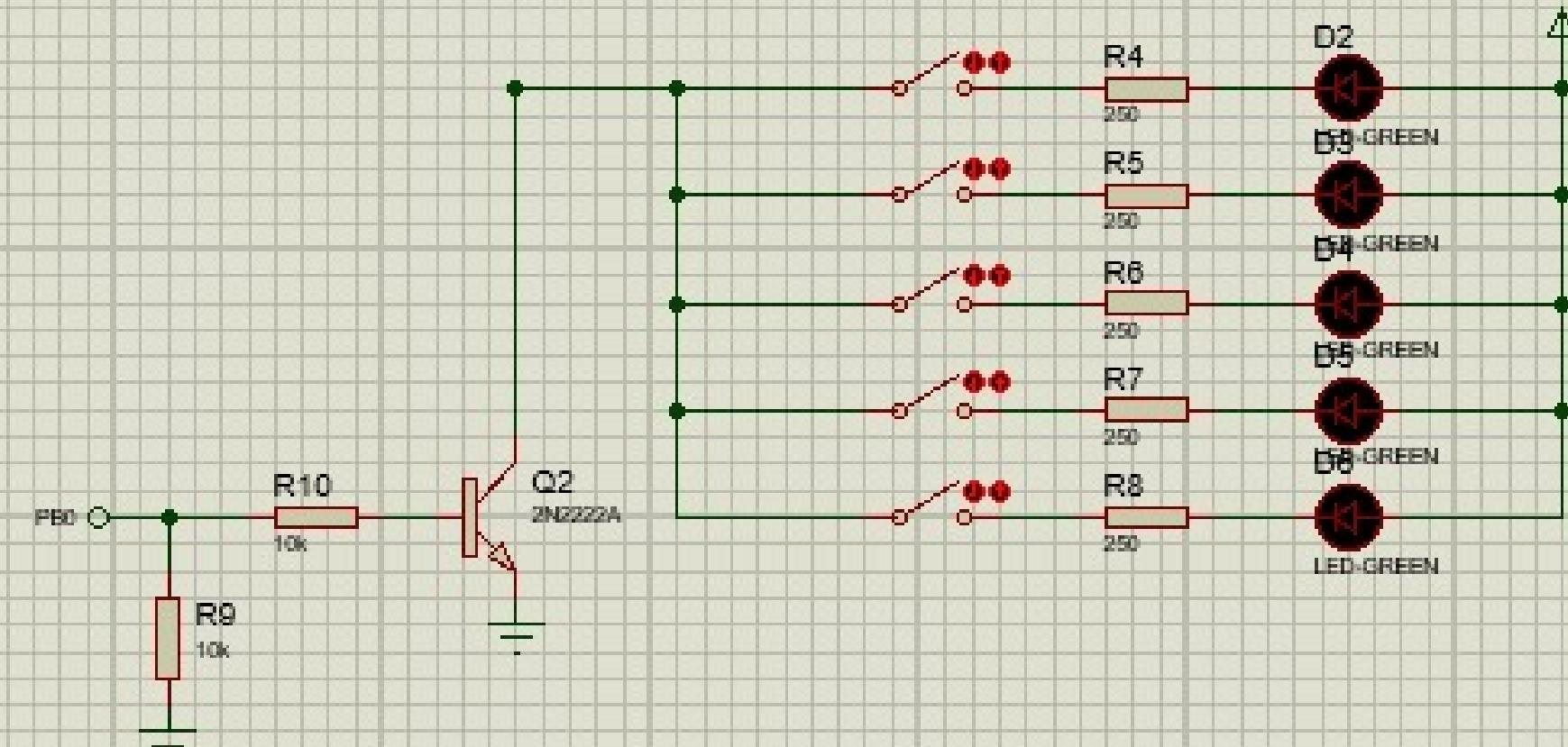


Lamps must be isolated because of high power.
Dimmer is a circuit that can control on the current flow to lamp depending on the input voltage “0 – 5V”

(dimmer circuit)

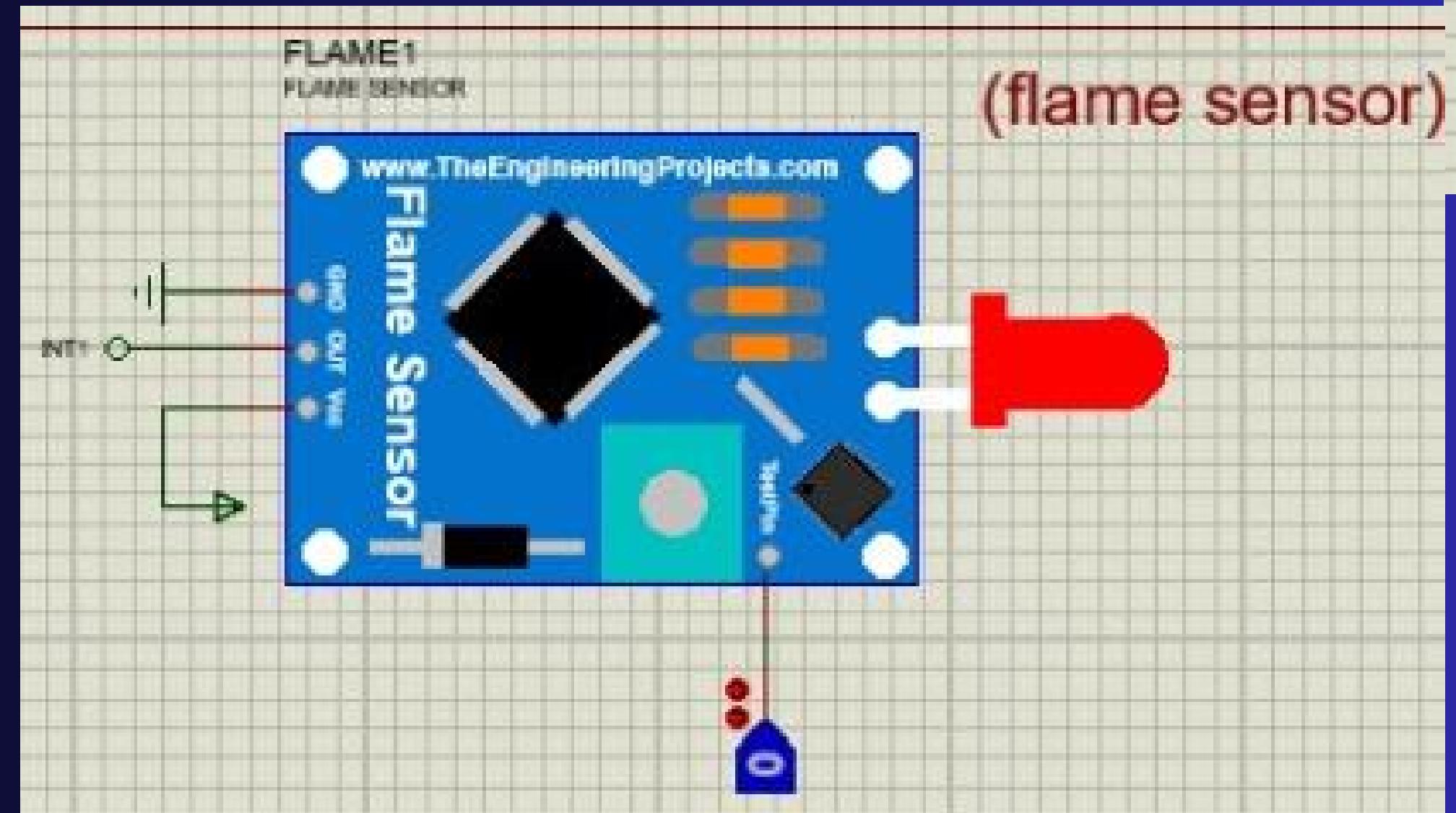


(5 lamps connection)

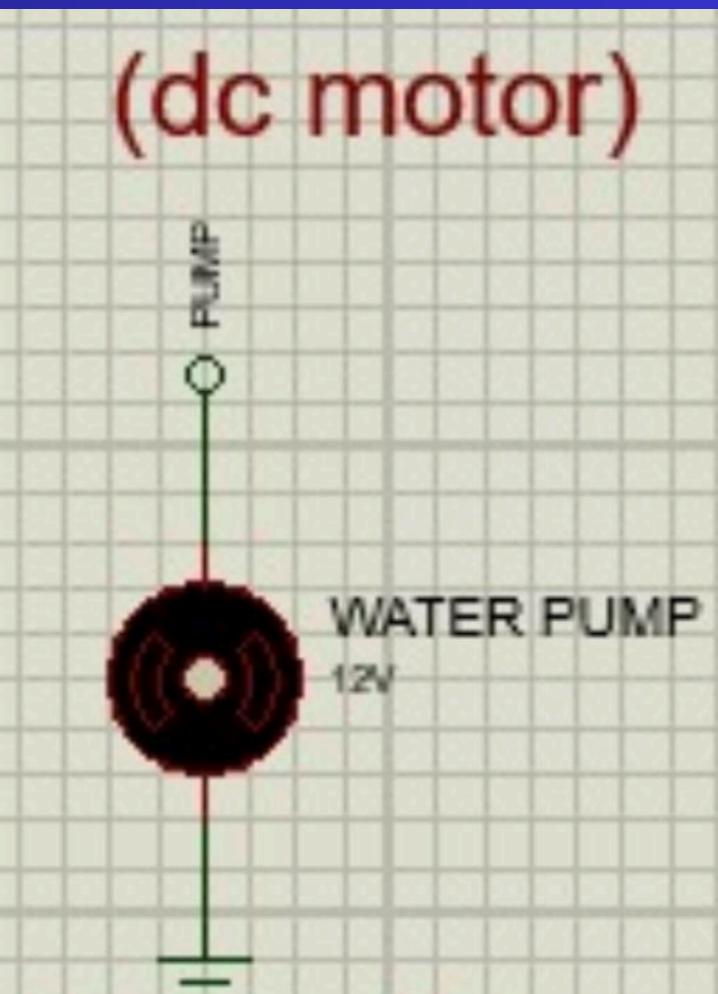


5-Flam sensor and Water pump

If a fire occurs in the house, the flame sensor will detect it and send a signal to the buzzer to alert and the water pump will start working.



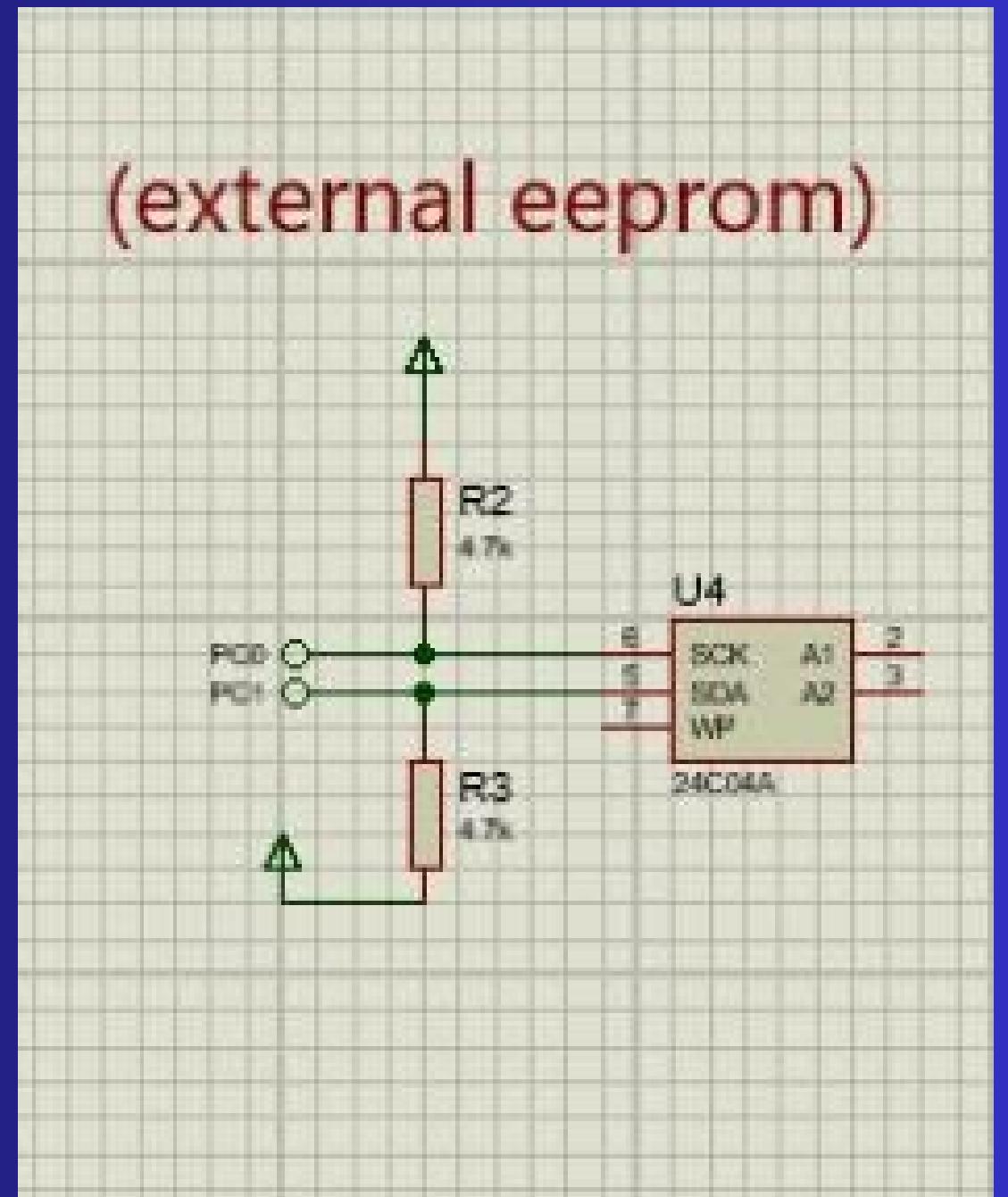
(flame sensor)



Water Pump

6-External EEPROM

Storing the new user to the system “registration”..
It is a Read/write memory





THANK YOU
For Listening