
DIY PROJECT Group 15

HOME AUTOMATION (voice controlled)

OBJECTIVE

To control Home Appliances with voice commands to help handicapped and aged people that will enable them to control Home appliances easily.

TEAM INTRODUCTION

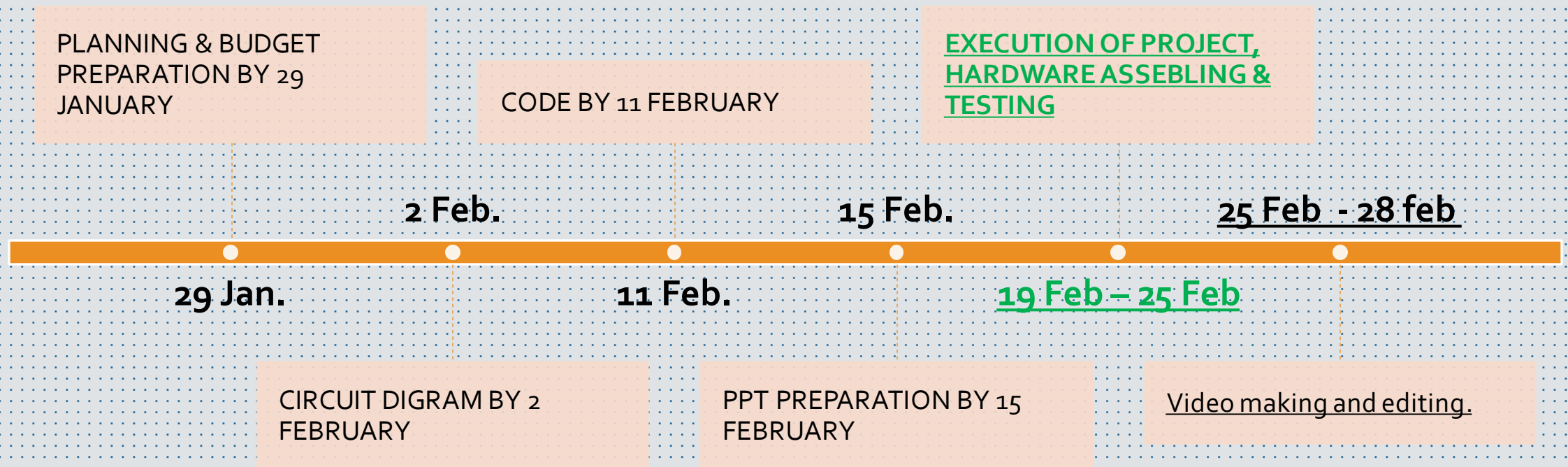
AKSHAT SHARMA (PROJECT EXECUTION & HARDWARE PART)(21CE30005)

DEVENDER (PPT PREPARATION & VIDEO EDITING)(21EX10010)

SALONI KUMARI (CODING & CIRCUIT DIAGRAM) (21IM10028)

GOUTAM (PLANNING, RESEARCH & BUDGET)(21EC10029)

ACTIVITY PLAN



COMPONENTS



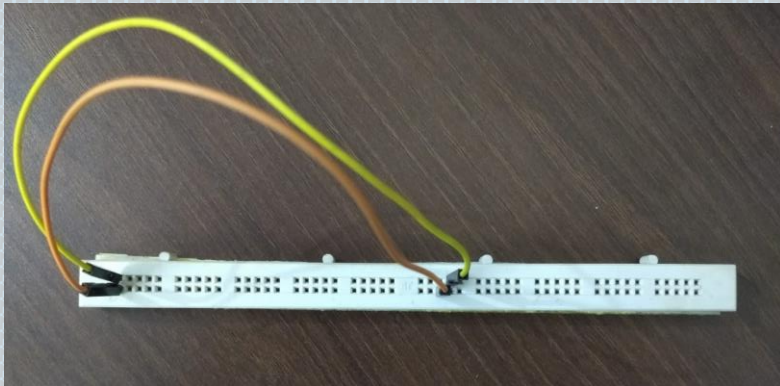
ARDUINO UNO + USB WIRE



BLUETOOTH MODULE (HC-05)



2C RELAY MODULE



BREAD BOARD +
JUMPER WIRE



Wi-Fi EXTENDER



LED BULB

COMPONENTS COST

- ARDUINO UNO + USB WIRE = Rs 770
- 2C RELAY MODULE = Rs 120
- BLUETOOTH MODULE (HC-05) = Rs 400
- JUMPER WIRE = Rs 114
- HALF BREAD BOARD = Rs 175
- TOTAL COST = Rs 1579
- COST PER PERSON = Rs 395

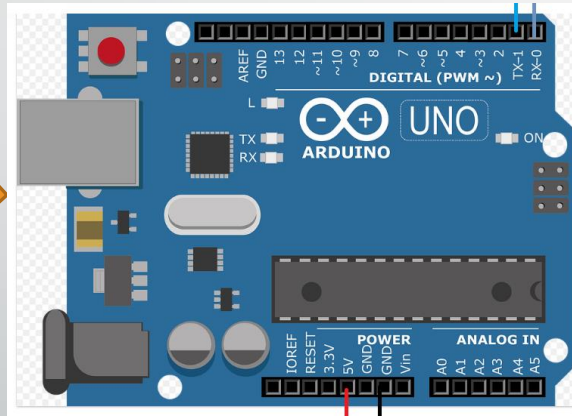


Voice command

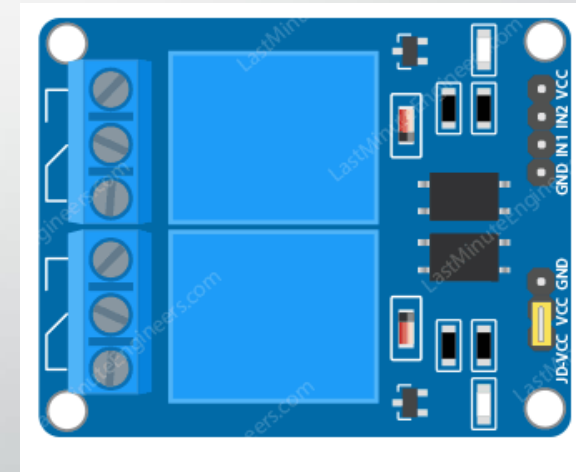
Transmits the command to Bluetooth module



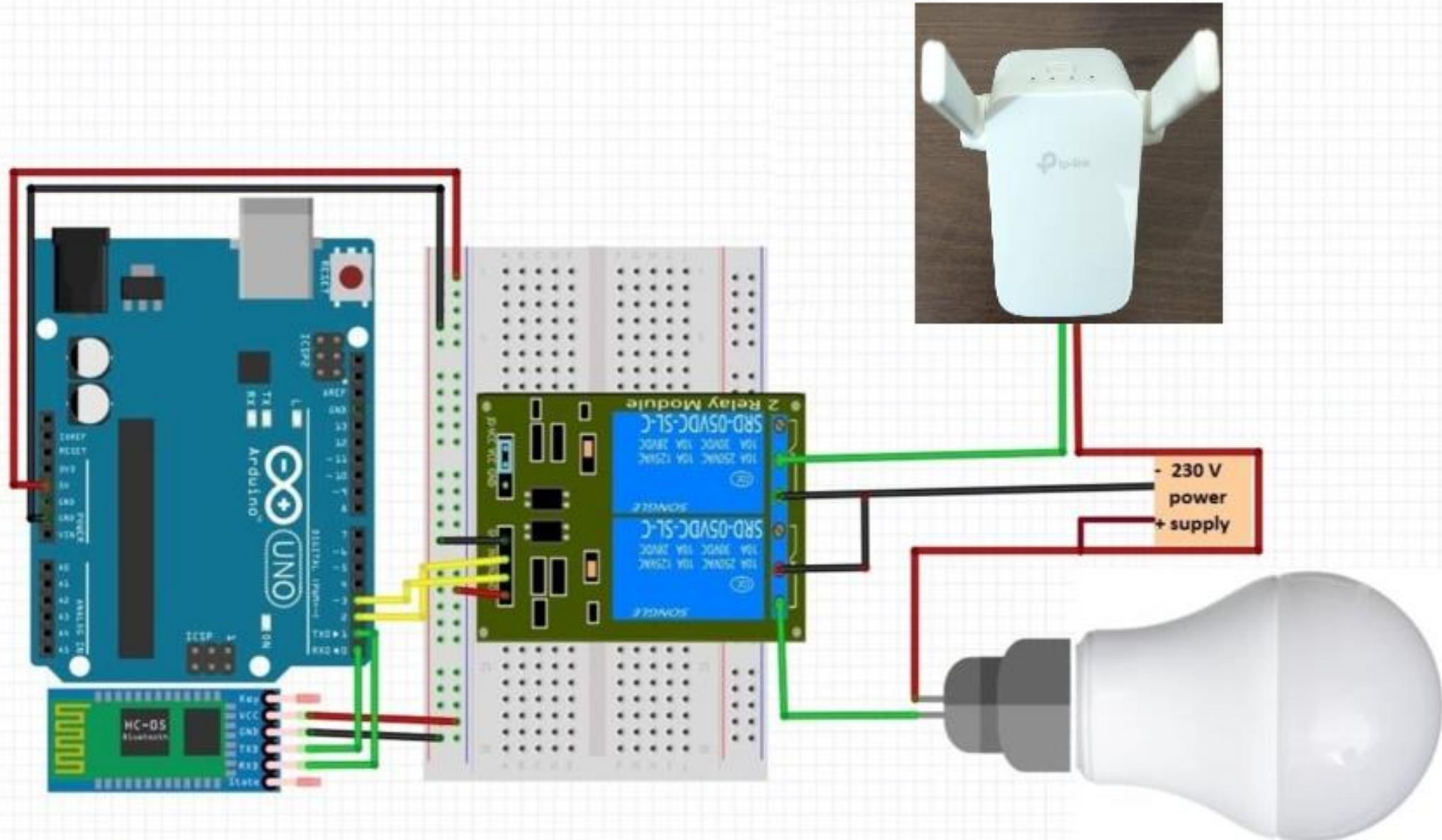
Received signals
are processed
by Arduino

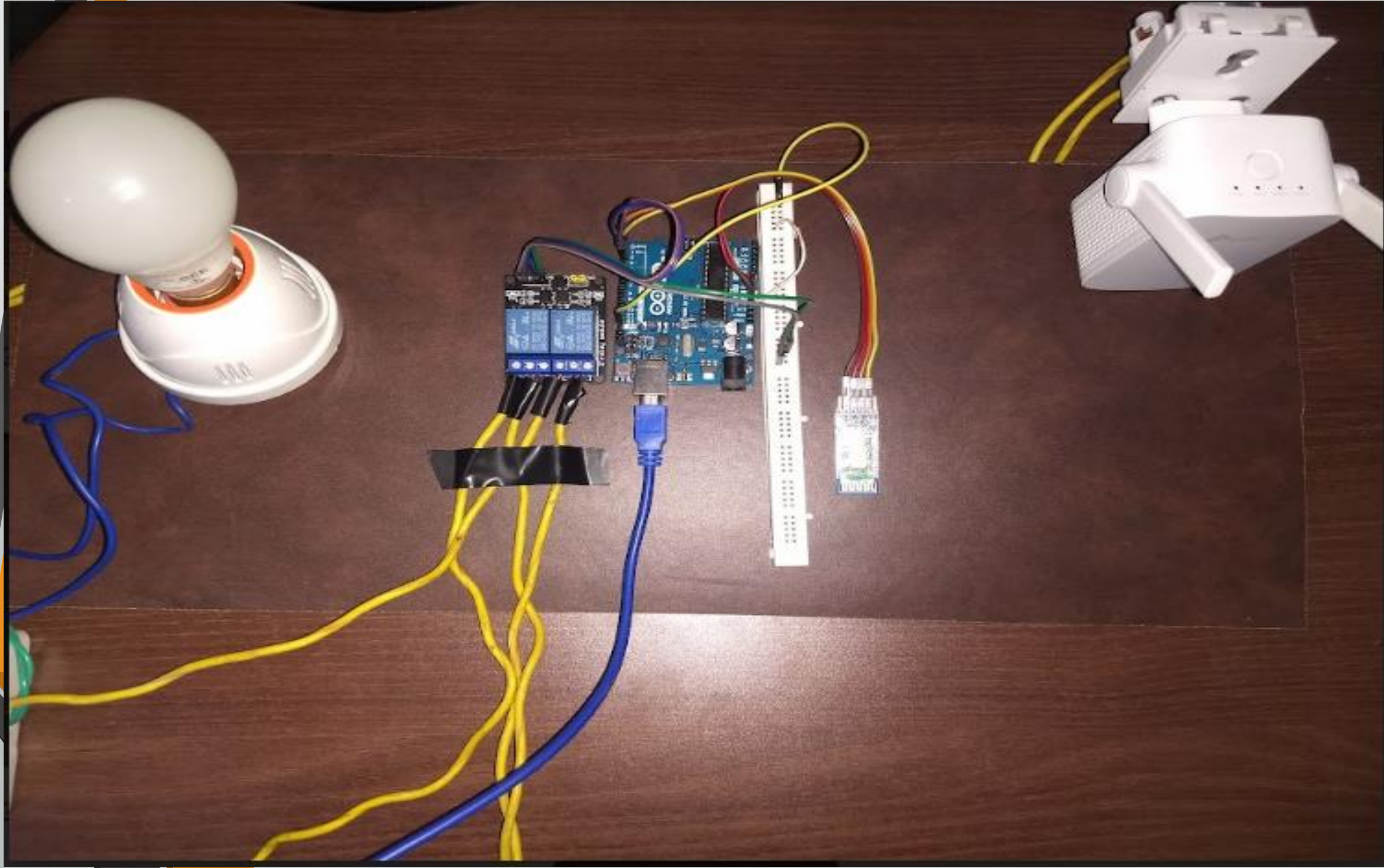


Based on the commands, Arduino
controls the relay module which in
turn controls the connected
appliances.



CIRCUIT DIAGRAM





FUTURE SCOPE

- Voice controlled home automation system can be further modified for even controlling speed of the fan and intensity of light.
- We can use Wi-Fi module instead of Bluetooth for home automation approach. It is faster, more reliable, and more secure than Bluetooth.

CONCLUSION

This project help us to design home automation which is easy to use (especially for handicap and old peoples) and has good reliability, increase energy efficiency and home security.



THANK YOU