

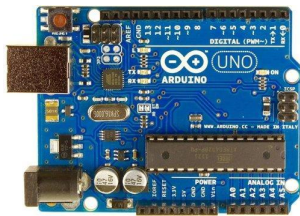
SMART TV CONTROLLER

Smart TV controller is an electronic instrument which can change TV settings according to the surrounding environment.

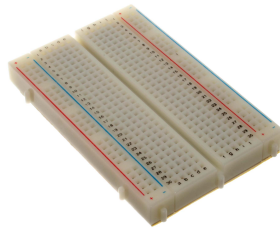
It contains features like .

- 1) Automatic volume change
- 2) Auto brightness
- 3) Universal Remote

Material Required:



Arduino Uno



Breadboard



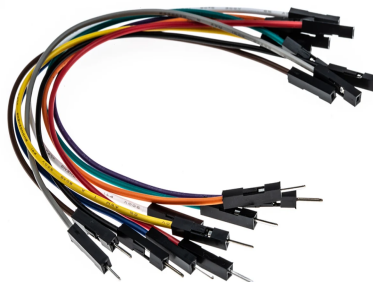
IR transmitter



Microphone KY038,



Bluetooth module HC-05, One sided jumper wires,

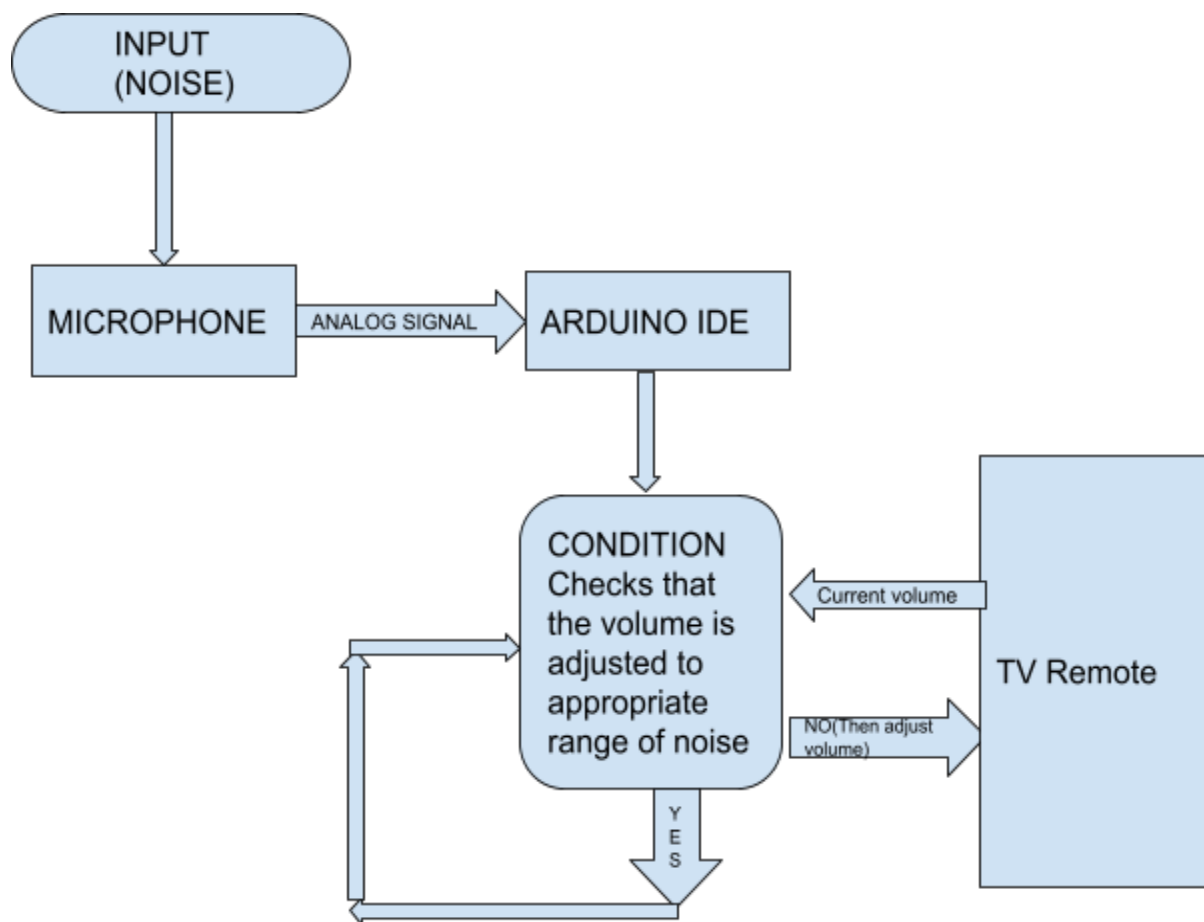


Light Dependent Resistor

For mentioned features we include IR Remote Library by Ken Shirriff in Arduino code.

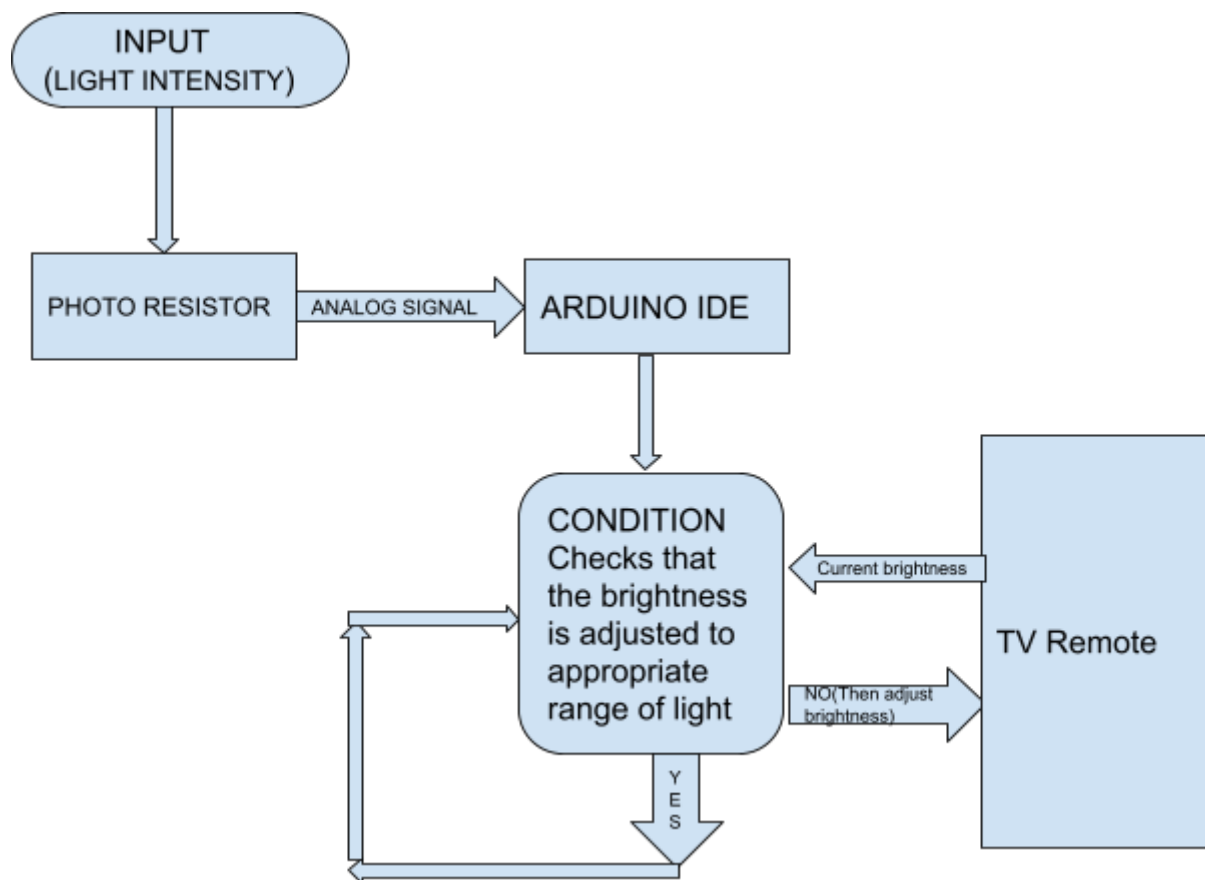
1)AUTOMATIC VOLUME CHANGE

In this feature, the TV remote senses the noise in surrounding and if the noise disturbance is high then it will increase the TV volume by itself. This function can also be disabled if not required.



2)AUTO BRIGHTNESS

Through this feature,the TV remote will adjust brightness of the TV screen as per the brightness of the surroundings.So,in case of less brightness,the brightness of the screen will increase automatically and vice versa.



3)UNIVERSAL REMOTE -

This feature will allow to control all electronic devices like DVD player,TV through a single remote.This can be achieved through IOT.

AUTO BRIGHTNESS and UNIVERSAL REMOTE are future prospects which we intend to add.

TIMELINE :

24 april:We completed our code for our first feature by this date.

26 April: Our first Feature i.e. AUTOMATIC VOLUME CHANGE was completed.

We intend to complete our future project AUTO BRIGHTNESS by 4 May and UNIVERSAL REMOTE by 10 May.

29 April:We completed our code for our second feature by this date.

3 May: We connected the code with tinkercad by now.

5 May: Our second Feature i.e. AUTOMATIC BRIGHTNESS CHANGE was completed.

