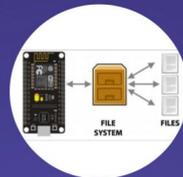# HOME AUTOMATION
using ESP8266

Home automation is the automatic control of electronic devices in your home. These devices are connected to the Internet, which allows them to be controlled remotely.
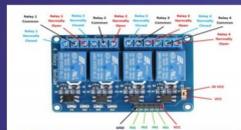

BOARD PINS

FLASH MEMORY

RELAY MODULE

A power relay module is an electrical switch that is operated by an electromagnet. The electromagnet is activated by a separate low-power signal from a micro controller.

FEATURES OF ESP8266
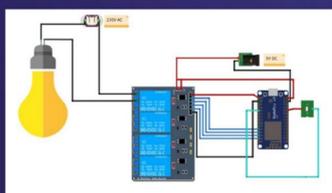
FEATURES OF ESP8266

ESP8266

The ESP8266 is a low-cost Wi-Fi microchip, with a full TCP/IP stack and microcontroller capability, produced by Espressif Systems. This small module allows microcontrollers to connect to a Wi-Fi network and make simple TCP/IP connections using Hayes-style commands. The very low price and the fact that there were very few external components on the module, which suggested that it could eventually be very inexpensive in volume.
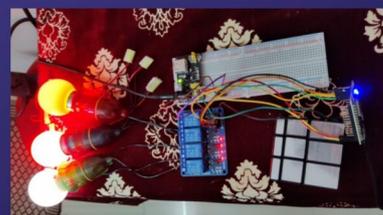

DEMO CIRCUIT

PRACTICAL CIRCUIT

We should check that NodeMCU is connected to local Wi-Fi or not. we are passing a command into Alexa like "Alexa, switch ON light1" In this case we passing another command like "Alexa, switch ON light3" Now, we connect all bulbs into a room now we can directly test with that room like "Alexa, switch ON room1"

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