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current_site=arduino&setup=true&redirect_to=%2Fprojecthub%2FShubham_Desai%2Fhome-automation-system-using-smartphone-and-bluetooth-64a400)



Home Automation System Using Smartphone and Bluetooth © CC BY-NC-ND

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In this project we are going to develop home automation system using Smartphone & Blynk app using Bluetooth. Let's make it...

[led \(/projecthub/projects/tags/led\)](/projecthub/projects/tags/led)

ABOUT THIS PROJECT



Hello everyone welcome to "Techno-E-solution", In this tutorial I will show you how to make Home Automation System Using Smartphone And Bluetooth. For this project we are going to Use Arduino Nano as a microcontroller and hc-05 bluetooth module for Connectivity purpose. The Blynk app are used to control the hole system of this project, So without wasting time let's get started.....

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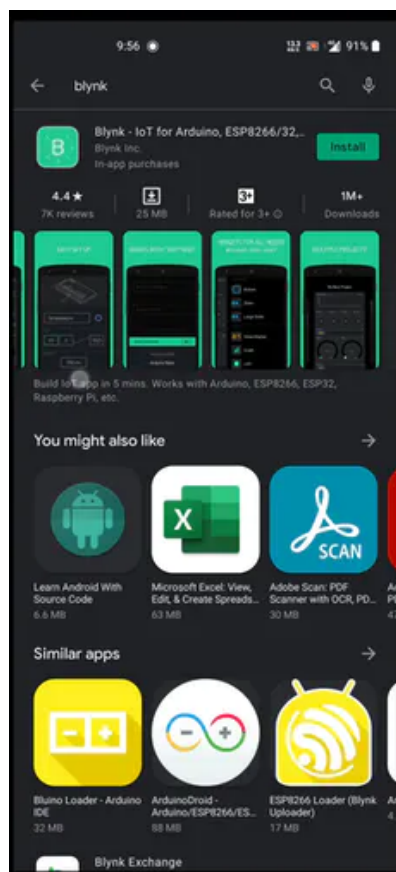
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LET'S MAKE PCB :-

Follow the following process for Making PCB Using Tonner Transfer Technic.

- Take a Single Sided Copper Clad PCB Board
- Cut the PCB as per PCB Layout
- Remove the dirt & rust from the PCB by using wire scrub or sand paper
- Place layout print on PCB & Heat the PCB with the help of Iron for 5-10 Min
- Take water in the container & deep the PCB into the water for 5 min
- Slowly remove the paper from the PCB
- Now take 2-3 spoon of ferrite chloride powder in container with water
- Deep PCB into the solution for 5-10 min for etching process
- After etching completed clean the excessive tonner from the PCB
- Drill The PCB with the help of PCB drill machine
- Now place app components on PCB & Solder It
- In this way the PCB board is completed.

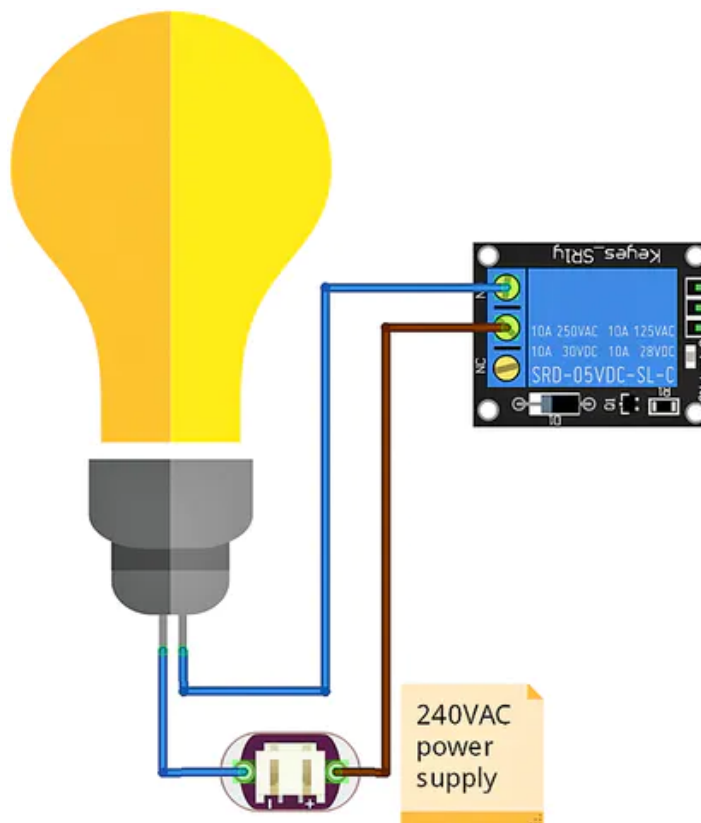
BLYNK APP INSTALLATION & SETUP :-



Let's Setup the BLYNK app

- Install Blynk (https://play.google.com/store/apps/details?id=cc.blynk&hl=en_IN&gl=US) App from google play store.
- Create Account On Blynk.
- Create New Project.
- You will get Token on your E-Mail.
- Give Name to Project.
- Select Device & Connection Type & click on Create Button.
- Select Bluetooth, then add 8 buttons.
- Give name to Buttons.
- Set the Pins.
- The app setup is completed

AC Load To Relay Connection :-



- Adjust LM2596 to 5V and Connect to the PCB.
- Connect Relay module to PCB.
- Give Power Supply.