

## ABSTRACT

At this time of technological development at home very rapidly, especially in the field of home automation technology. The number of products in the field of home automation technologies such as smart home including providing convenience, comfort and safety to consumers. The developer are required to make a product that can provide the facilities to make it easier to help the problems of the consumers.

In preparation of this final project is to design a tool that can enable consumers to turn off and turn on a switch. This tool will be connected with the android operating system based smartphone from customers that are now commonly used by the public. So that the customer can access the switch to turn off or turn on the android smartphone. Arduino serves as a system that connects subscribers to switch between smartphone.

On the design of smart plug tools got the results that this tool which serve as the controller plug can be used on android smartphone with android version kitkat or above. With the percentage of success tool smart plug to switch on and off the plug that is 100% and the speed button to switch on and off the plug is during 10.3 seconds.

***Keyword:*** *Smart Plug, Smart Home, Arduino, Android*