Abstract
Automation is now widely used for various purposes to facilitate human work. The control system in this case as a field of science that allows the implementation of automation, one of which is the light. Generally the lights in the room are still using a regular switch, so the owner of the room must turn on and turn off the light manually. The purpose of this final task is to create a switch that can work automatically to turn on and off the lights in the room without having to press the switch. The process of automation of this final project is controlled using a microcontroller so that it can turn on the lights when the sensor detects a movement from humans. This tool consists of several series, the motion sensor using sensor PIRmodule KC7783R which controls 2 lights at once, control using Arduino Uno and output using the lamp.

Keywords: Autimation, Room lamp, sensor PIR, Arduino