

Site Link: <https://sites.google.com/view/key-pad-system-153b-final/home>

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Purpose/Goal: Our project will be to implement a security system via a keypad in order to enter a room. The setup is outside of a room you will have a keypad with an LCD screen next to it. On the inside of the room, there is a infrared emitter and receiver that are directly across each other (the receiver is receiving infrared light) and a buzzer next to those. An alternative to the emitter and receiver is a motion sensor. You must enter the correct code in order to enter the room. If the correct code is inputted, then you have 10 seconds to enter the room without any alarms going off. If you do not enter the correct code, or don't enter a code at all, then once the receiver stops receiving (ie, you walk in between the sensors) a buzzer will sound. The buzzer can only be turned off if you go back and put the correct code in. Another addition to this is to use the HC-05 Bluetooth sensor so that those in the vicinity will receive an update that the wire was tripped.

Parts list: infrared emitter and receiver (or motion sensor), buzzer, Bluetooth module, keypad

