String inputs;

#define relay1 2 //Connect relay1 to pin 9

#define relay2 3 //Connect relay2 to pin 8

#define relay3 4 //Connect relay3 to pin 7

#define relay4 5 //Connect relay4 to pin 6

#define relay5 6 //Connect relay5 to pin 5

#define relay6 7 //Connect relay6 to pin 4

#define relay7 8 //Connect relay7 to pin 3

#define relay8 9 //Connect relay8 to pin 2

void setup()

{

Serial.begin(9600); //Set rate for communicating with phone

pinMode(relay1, OUTPUT); //Set relay1 as an output

pinMode(relay2, OUTPUT); //Set relay2 as an output

pinMode(relay3, OUTPUT); //Set relay1 as an output

pinMode(relay4, OUTPUT); //Set relay2 as an output

pinMode(relay5, OUTPUT); //Set relay1 as an output

pinMode(relay6, OUTPUT); //Set relay2 as an output

pinMode(relay7, OUTPUT); //Set relay1 as an output

pinMode(relay8, OUTPUT); //Set relay2 as an output

digitalWrite(relay1, HIGH); //Switch relay1 off

digitalWrite(relay2, HIGH); //Swtich relay2 off

digitalWrite(relay3, HIGH); //Switch relay1 off

digitalWrite(relay4, HIGH); //Swtich relay2 off

digitalWrite(relay5, HIGH); //Switch relay1 off

digitalWrite(relay6, HIGH); //Swtich relay2 off

digitalWrite(relay7, HIGH); //Switch relay1 off

digitalWrite(relay8, HIGH); //Swtich relay2 off

}

void loop()

{

while(Serial.available()) //Check if there are available bytes to read

{

delay(10); //Delay to make it stable

char c = Serial.read(); //Conduct a serial read

if (c == '#'){

break; //Stop the loop once # is detected after a word

}

inputs += c; //Means inputs = inputs + c

}

if (inputs.length() >0)

{

Serial.println(inputs);

if(inputs == "A")

{

digitalWrite(relay1, LOW);

}

else if(inputs == "a")

{

digitalWrite(relay1, HIGH);

}

else if(inputs == "B")

{

digitalWrite(relay2, LOW);

}

else if(inputs == "b")

{

digitalWrite(relay2, HIGH);

}

else if(inputs == "C")

{

digitalWrite(relay3, LOW);

}

else if(inputs == "c")

{

digitalWrite(relay3, HIGH);

}

else if(inputs == "D")

{

digitalWrite(relay4, LOW);

}

else if(inputs == "d")

{

digitalWrite(relay4, HIGH);

}

else if(inputs == "E")

{

digitalWrite(relay5, LOW);

}

else if(inputs == "e")

{

digitalWrite(relay5, HIGH);

}

else if(inputs == "F")

{

digitalWrite(relay6, LOW);

}

else if(inputs == "f")

{

digitalWrite(relay6, HIGH);

}

else if(inputs == "G")

{

digitalWrite(relay7, LOW);

}

else if(inputs == "g")

{

digitalWrite(relay7, HIGH);

}

else if(inputs == "H")

{

digitalWrite(relay8, LOW);

}

else if(inputs == "h")

{

digitalWrite(relay8, HIGH);

}

inputs="";

}