IOT PROJECT

Smart Home

#define BLYNK\_PRINT Serial

#include <ESP8266WiFi.h>

#include <BlynkSimpleEsp8266.h>

#include <Servo.h>

/\*0-lock position,170-open position\*/

Servo lock;

char auth[] = "";

char ssid[] = "RISHU";

char pass[] = "Rishu";

void notifyme1() //for theif protection

{

int i;

int s=1;

start:

int a;

a=digitalRead(D9); /\*connect digital pin 5 to ESP GPIO pin 0\*/

if((a==0)&&(s==1))

{

for(i=0;i<=170;i++)

{

lock.write(i);

delay(7);

}

Serial.print("OPEN");

s=0;

}

if((s==0)&&(a==0))

{

for(i=170;i>=0;i--)

{

lock.write(i);

delay(7);

}

Serial.print("LOCKED");

s=1;

}

goto start;

}

}

void notifyme2()

{

Blynk.notify("Pulse is low");

}

void bedroom()

{

digitalWrite(D5,HIGH);

digitalWrite(D6,LOW);

delay(2000);

digitalWrite(D5,LOW);

digitalWrite(D6,LOW);

}

void hall()

{

digitalWrite(D5,HIGH);

digitalWrite(D6,LOW);

delay(2000);

digitalWrite(D5,LOW);

digitalWrite(D6,LOW);

}

void gezer()

{

digitalWrite(D7,HIGH);

while(digitalRead(D4==LOW));// OR YOU CAN SET DELAY HERE IF YOU WANT TO ON THE GEZER FOR CERTAIN TIME

digitalWrite(D7,LOW);

}

void oxy()

{

Blynk.notify("wheat is low");

}

void setup()

{

Serial.begin(9600);

Blynk.begin(auth, ssid, pass);

pinMode(D5, OUTPUT); //MOTOR+VE

pinMode(D6, OUTPUT); //MOTOR-VE

pinMode(D7, OUTPUT);

pinMode(D0, INPUT\_PULLUP); // EMERGENCY BUTTON UNKNOWN

pinMode(D1, INPUT\_PULLUP); // PULSE IS LOW

pinMode(D2, INPUT\_PULLUP); //SWITCH ON BED ROOM FAN

pinMode(D3, INPUT\_PULLUP); //SWITCH ON HALL FAN

pinMode(D4, INPUT\_PULLUP); //START THE GEZER

pinMode(D8, INPUT\_PULLUP); //RICE

pinMode(D10, INPUT\_PULLUP); //WHEAT

pinMode(D9,INPUT\_PULLUP);//ANTI THEFT SETUP

lock.attach(2);

Serial.begin(9600);

lock.write(0);

attachInterrupt(digitalPinToInterrupt(D4), gezer, CHANGE);//gezer slider bhi rkh skte hai

}

void loop()

{

if(digitalRead(D2==LOW)

{

bedroom();

}

if(digitalRead(D3==LOW)

{

hall();

}

if(digitalRead(D0==LOW)

{

notifyme1();

}

if(digitalRead(D1==LOW)

{

notifyme2();

}

if(digitalRead(D8==LOW)

{

oxy();

}

Blynk.run();

}