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/* Project : Simple Security Alarm System
Date : 17/01/2016
*/
int sensor=3; //Reed switch input pin
int mode=4; //mode/Window=0 mode input pin
int speaker=13; //speaker output pin
int safetime=0;
void setup(){
  pinMode(sensor, INPUT); //define pin as an input
  pinMode(mode, INPUT); //define pin as an input
  pinMode(speaker,OUTPUT); //define pin as an output
  //delay(30000); //delay before activation of the system
  digitalWrite(speaker, LOW);
  if(digitalRead(mode)==HIGH) //i.e. door mode if mode=low, window
  {safetime=30000;} //delay for the owner who wants to go out
  else {safetime=3000;} //delay to avoid noise
  delay(safetime); //initial delay
}

void loop(){
  while(digitalRead(sensor)==LOW) //while door or window is closed,
(closed=low, open=high)
  {(digitalRead(sensor));} //continue to sense the door/window
  {delay(safetime);} // door mode- owner expected to turn off the
system
  while(1)
  {analogWrite(speaker,140);}
}

```