

ASSIGNMENT 1

SMART HOME USING THINKERCAD

CODING:

```
#include <LiquidCrystal.h>
LiquidCrystal lcd(13,12,6,5,3,2);
int led=7;
int PIR=4;
int buzzer=8;
int PIRstatus;
```

```
void setup()
{
  lcd.begin(16,2);
  pinMode(led, OUTPUT);
  pinMode(buzzer, OUTPUT);
  pinMode(PIR, INPUT);
  lcd.clear();
}
```

```
void loop()
{
  PIRstatus=digitalRead(PIR);
  if (PIRstatus==HIGH){
    lcd.clear();
  }
```

```
void loop()
{
  PIRstatus=digitalRead(PIR);
  if (PIRstatus==HIGH){
    lcd.clear();
    digitalWrite(led, HIGH);
    digitalWrite(buzzer, HIGH);
```

```
digitalWrite(buzzer, HIGH);
  tone(buzzer, 300, 10000);
```

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```
lcd.setCursor(0,1);  
lcd.print("ALERT");  
  
delay(7000);  
lcd.clear();  
}  
else  
{  
lcd.setCursor(0, 0);  
  lcd.print("SAFE");  digitalWrite(led, LOW);  
  digitalWrite(buzzer, LOW);}  
delay(1000);  
}
```

CIRCUIT DIAGRAM:

