ASSIGNMENT

ASSIGNMENT 1 SMART HOME USING THINKERCAD

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Project Name : IOT based smart
crop protection for agriculture

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: