## 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);
```

```
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:**

