

Karpagam College of Engineering

(Electronics and Communication Engineering)

Name: Jayanthan C

Roll No: 717819L218

Assignment 1:

Smart home in Tinkercad with 2 sensors, an Led, buzzer

Code:

```
int echo=3;
int trigg=5;
int buzz=2;
int PIR=8;
int PIR_led=12;
int U_led=13;
int time ;
int distance;
void setup()
{
  Serial.begin(9600);
  pinMode(PIR_led, OUTPUT);
```

```
pinMode(U_led, OUTPUT);
pinMode(buzz, OUTPUT);
pinMode(PIR, INPUT);
pinMode(echo, INPUT);
pinMode(trigg, OUTPUT);
}
void loop()
{
  if (digitalRead(PIR)==HIGH){
    Serial.println("Alerts ");
    digitalWrite(PIR_led,HIGH);
    delay(1000);
  }
  digitalWrite(PIR_led,LOW);
  digitalWrite(trigg,HIGH);
  delayMicroseconds(10);
  digitalWrite(trigg,LOW);
  time=pulseIn(echo,HIGH);
  distance= (time*0.034)/2;
  if (distance<=150)
  {
    Serial.println("Alert");
    digitalWrite(U_led,HIGH);
    digitalWrite(buzz,HIGH);
```

```
    delay(1000);  
  }  
  else  
  {  
    digitalWrite(U_led,LOW);  
    digitalWrite(buzz,LOW);  
    delay(1000);  
  }  
}
```

