

Professional Readiness for Innovation, Employability and Entrepreneurship

Smart Home

Assignment 1

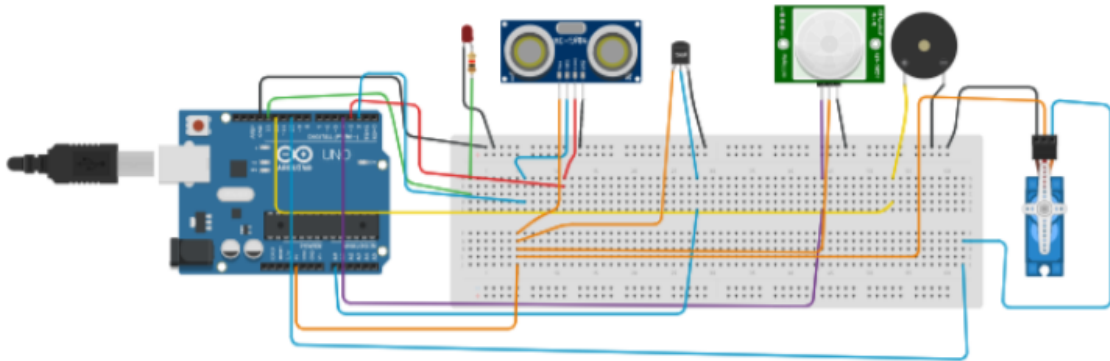
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B1-1M3E

CIRCUIT DIAGRAM FOR SMART HOME:



CODING:

```
#include <Servo.h>

int location=0;

int i=0;

int j=0;

Servo s;

Void setup()
{
  Serial.begin(9600);
  pinMode(4,INPUT);
  pinMode(13,OUTPUT);
  pinMode(12,OUTPUT);
  s.attach(10,500,2500);
  pinMode(3,INPUT);
  pinMode(2,OUTPUT);
}

void loop()
```

```

{
int n=digitalRead(4);
Serial.println(n);
If(n){
Serial.println("MOTION DETECTD!!!");
Location=0;
For(location=1;location<=180;location+=60){
s.write(location);
delay(100);
double a=analogRead(A0);
double t=((a/1024)*5)-0.5)*100;
Serial.print("TEMP VALUE:");
Serial.println(t);
If(t>100){
for(int j=200;j<220;j++)
{
tone(12,j);
}
delay(1000);
noTone(12);
}
digitalWrite(2,LOW);
digitalWrite(2,HIGH);
delay(1000);
digitalWrite(2,Low);
float dur=pulseIn(3,HIGH);
digitalWrite(13,LOW);
if(dis<20){
Serial.print("Distance");
Serial.print(dis);
Serial.println("cm");
}
}
}

```

```
digitalWrite(13,HIGH);  
}  
}  
  
digitalWrite(2,LOW);  
digitalWrite(2,HIGH);  
delay(1000);  
digitalWrite(2,Low);  
float dur=pulseIn(3,HIGH);  
float dis=(dur*0.0343)2;  
digitalWrite(13,LOW);  
if(dis<20){  
  Serial.print("Distance");  
  Serial.print(dis);  
  Serial.println("cm");  
  digitalWrite(13,HIGH);  
}  
}  
delay(1000);  
}
```

Tinker cad link:

<https://www.tinkercad.com/things/h1l01KYuoyY-cool-krunk-maimu>