

Professional Readiness for Innovation, Employability and Entrepreneurship

Smart Home

Assignment 1

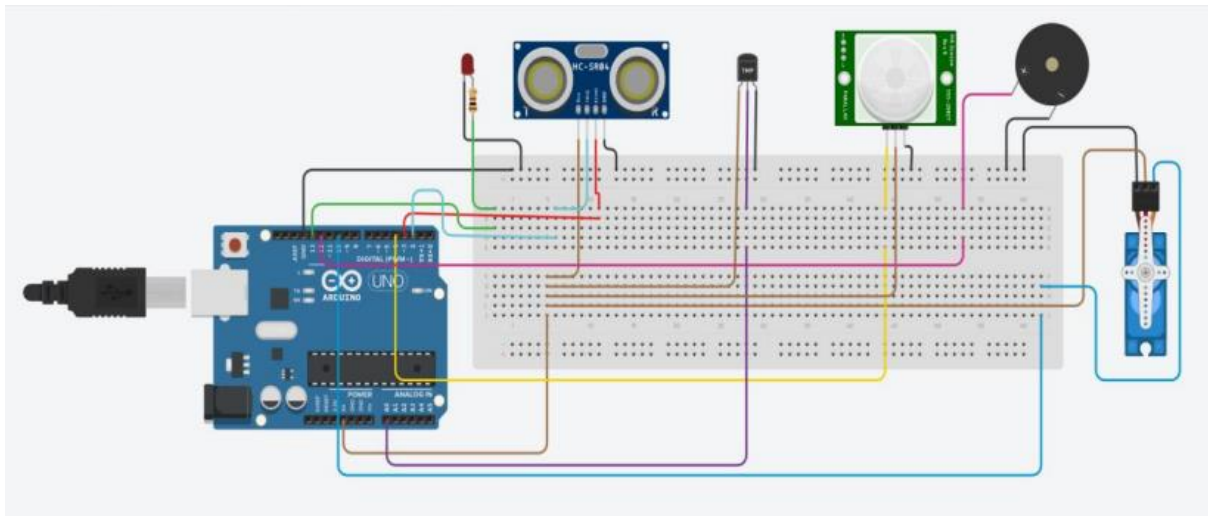
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B1-1M3E

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);  
}
```