Team ID: PNT2022TMID21451

Project Name: Project - Personal Assistance for Seniors Who Are Self-reliant

Measuring the value of PIR and Ultrasonic sensor value and turn on the LED.

Code:

```
int led = 13;
int sensor = 2;
int buzzer = 12;
int t = 3;
int e = 4;
void setup() {
 pinMode(led, OUTPUT);
  pinMode(sensor, INPUT);
  pinMode(buzzer, OUTPUT);
  pinMode(t, OUTPUT);
  pinMode(e, INPUT);
  Serial.begin(9600);
}
void loop() {
  int sensorval = digitalRead(sensor);
  Serial.println(sensorval);
   if (sensorval == HIGH) {
    digitalWrite(led, HIGH);
    tone(buzzer, 1000, 500);
  }
  else {
    digitalWrite(led, LOW);
  }
  digitalWrite(t, LOW);
  digitalWrite(t, HIGH);
  delayMicroseconds(10);
```

```
   digitalWrite(t,LOW);

  float dur = pulseIn(e,HIGH);

  float dis = (dur*0.0343)/2;

  if(dis < 100){

    digitalWrite(led, HIGH);

    tone(buzzer, 1000, 500);

  }

  else {

    digitalWrite(led, LOW);

  }

}
```
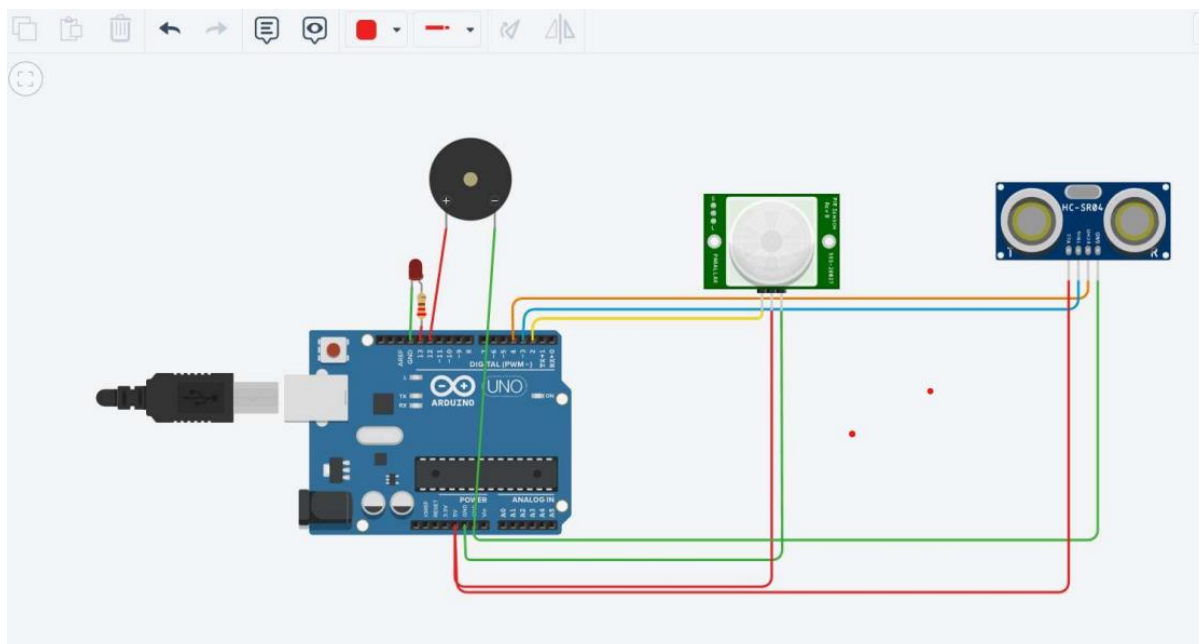
Picture:

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