SPRINT 2

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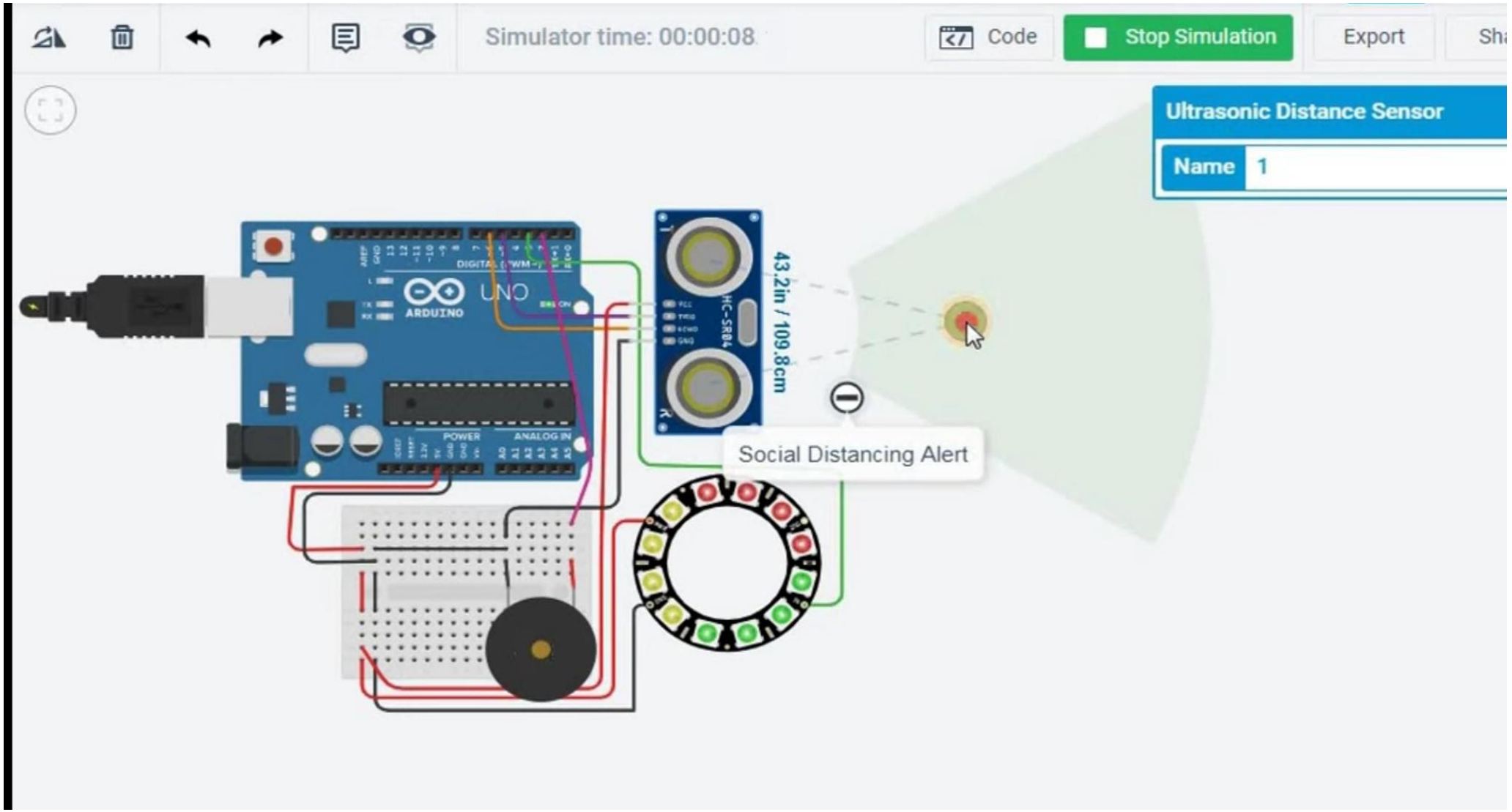
Project Name : IOT Based Safety Gadget for Child Safety Monitoring & Notification.

```
void setup()
{
   PinMode(buzzerpin,OUTPUT);
PinMode(trigpin,OUTPUT);
pinMode(echopin,INPUT);
serial.begin(9600);
strip.begin();
for(int i=0,i=ledNo;i++)
{
strip.setpixe1color(i,strip.color(0,0,0);
}
strip.show();
}
void loop()
{
int distance =calcdistance();
Serial.println(distance);
int ledsTOGlow=map (distance,mindi
stance,maxdistance,ledNo);
Serial.println(ledsTOGlow);
if(ledsTOGlow==12)
{
digitalWrite(buzzerpin,HIGH);
}
else
{
digitalWrite (buzzerpin,LOW);
}
```

```
digitalWrite(buzzerpin,HIGH);
}
else
{
digitalWrite (buzzerpin,LOW);
}
for(int i=0;i=ledsTOGlow;i++)
{
if(i<4)
{
strip.setpixe1color(i,strip.color(50,0,0
));
}
else if (i>=4 && i<=8)
strip.setpixe1color(i,strip.color(50,50,
0));
}
strip.setpixe1color(i,strip.color(0,50,0
));
}
}
for(int i=ledsTOGlow;i<ledNo;i++)
{
strip.setpixe1color(i,strip.color(0,0,0))
;
}
strip.show();
delay(50);
}
int calcdistance ()
{
```

```
long distance, duration ;
digital1Write(trigpin,LOW);
delayMicroseconds(2);
digital1Write (trigpin,HIGH);
delayMicroseconds (10);
digitalWrite (trigpin,LOW);
duration=pulseIn(echopin,HIGH);
distance=duration /29/2;
if(distance >=maxDistance)
{
distance=maxDistance;
}
if(distance<=minDistance)
{
distance=minDistance;
}
return distance;
}
```


Simulator time: 00:00:08
Code
Stop Simulation
Export
Ultrasonic Distance Sensor
Name
1
43.2in / 109.8cm
Social Distancing Alert
ARDUINO
UNO
HC-SR04
POWER
ANALOG IN