

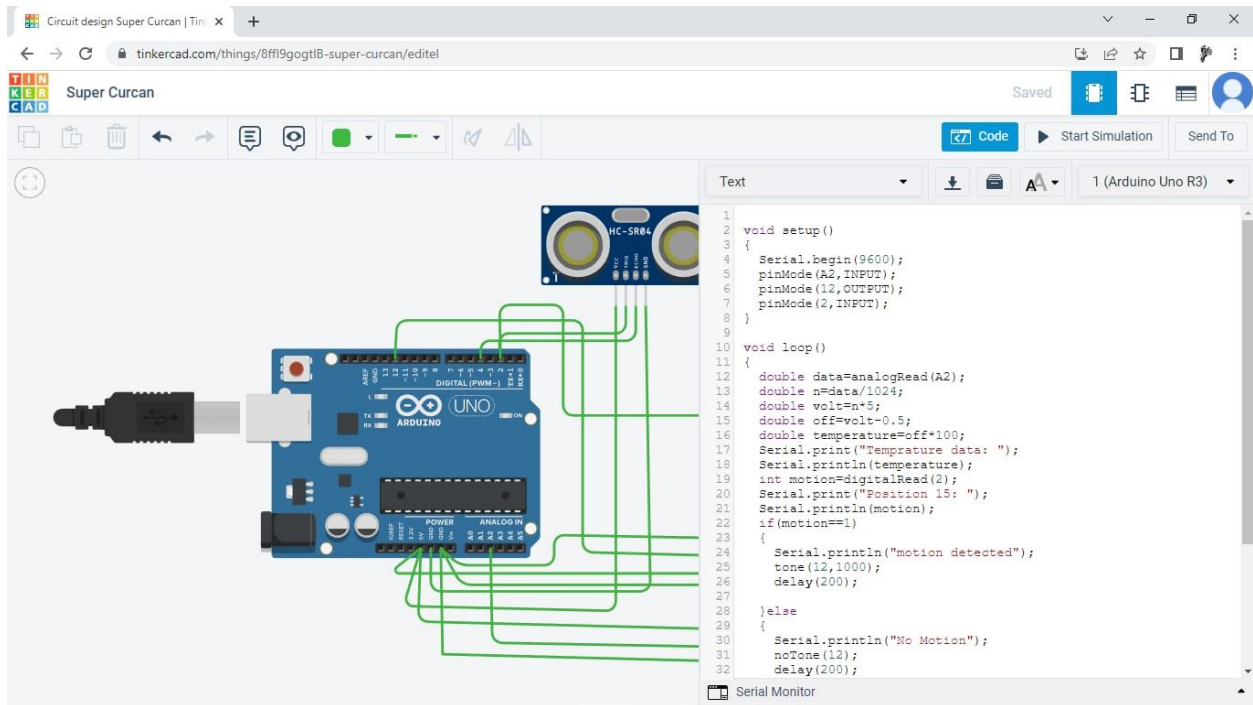
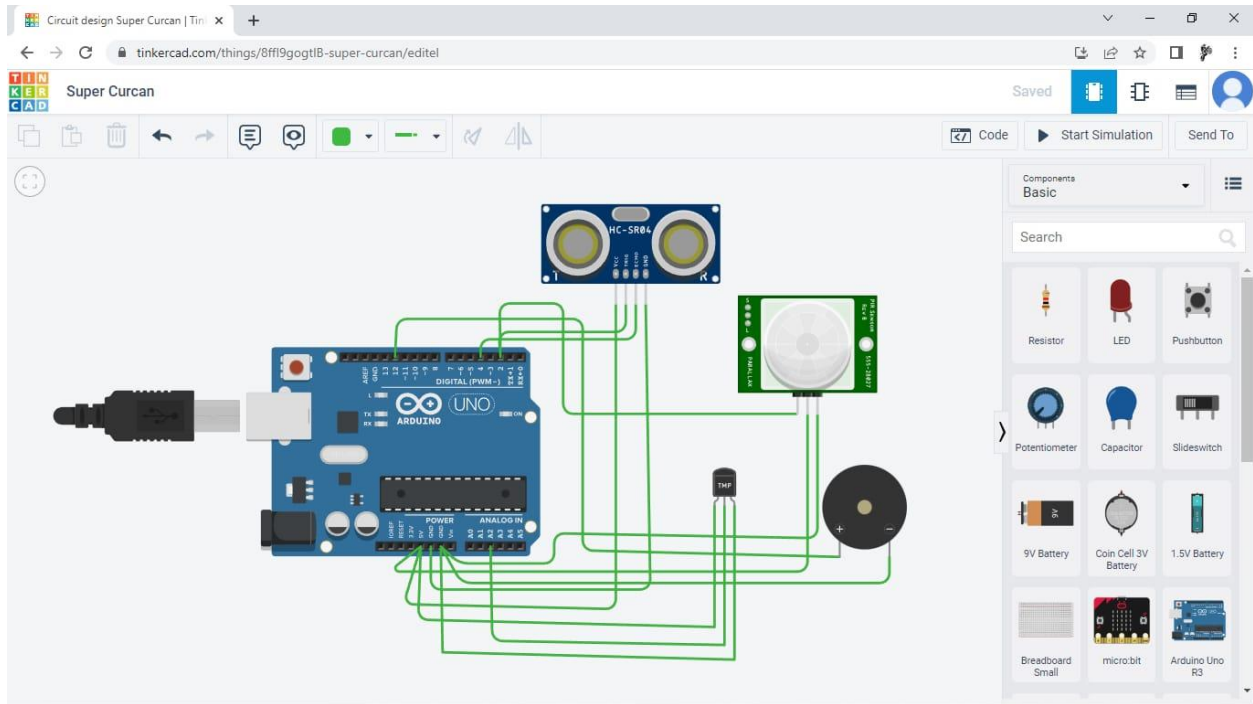
ASSIGNMENT 1

```
void setup()
{
  Serial.begin(9600);
  pinMode(A2,INPUT);
  pinMode(12,OUTPUT);
  pinMode(2,INPUT);
}
```

```
void loop()
{
  double data=analogRead(A2);
  double n=data/1024;
  double volt=n*5;
  double off=volt-0.5;
  double temperature=off*100;
  Serial.print("Temprature data: ");
  Serial.println(temperature);
  int motion=digitalRead(2);
  Serial.print("Position 15: ");
  Serial.println(motion);
}
```

```
if(motion==1)
{
  Serial.println("motion detected");
  tone(12,1000);
  delay(200);

}else
{
  Serial.println("No Motion");
  noTone(12);
  delay(200);
}
if(temperature>=60)
{
  tone(12,3000);
  delay(200);
}else
{
  noTone(12);
  delay(200);
}
}
```



Circuit design Super Curcan | Tini x

tinkercad.com/things/8ffl9gogtIB-super-curcan/editel

Super Curcan

Saved

Code Start Simulation Send To

Text

1 (Arduino Uno R3)

```
13 double n=data/1024;
14 double volt=n*5;
15 double off=volt-0.5;
16 double temperature=off*100;
17 Serial.print("Temperature data: ");
18 Serial.println(temperature);
19 int motion=digitalRead(2);
20 Serial.print("Position 15: ");
21 Serial.println(motion);
22 if(motion==1)
23 {
24   Serial.println("motion detected");
25   tone(12,1000);
26   delay(200);
27 }
28 }else
29 {
30   Serial.println("No Motion");
31   noTone(12);
32   delay(200);
33 }
34 if(temperature>=60)
35 {
36   tone(12,3000);
37   delay(200);
38 }else
39 {
40   noTone(12);
41   delay(200);
42 }
43 }
44 }
```

Serial Monitor