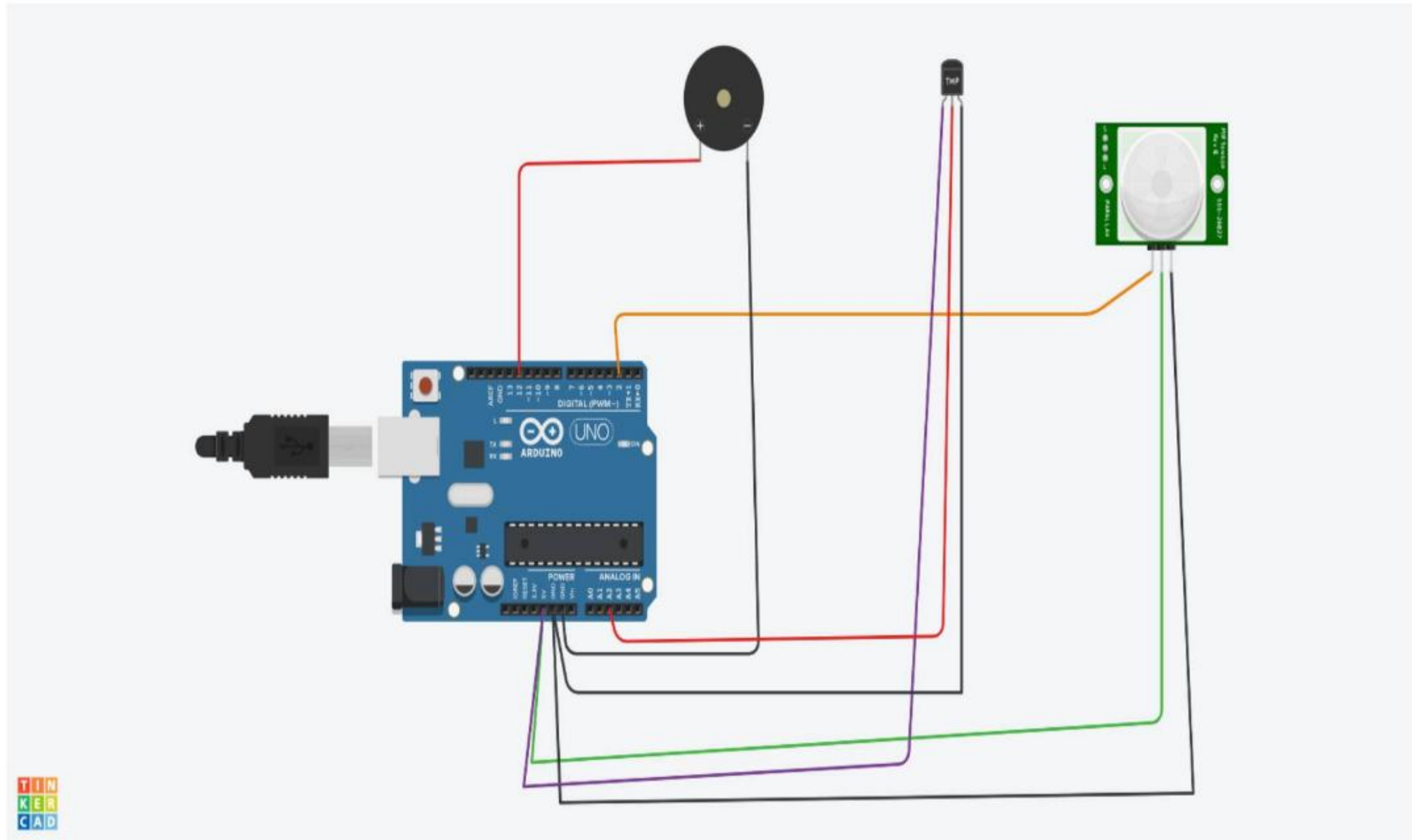


## IBM ASSIGNMENT

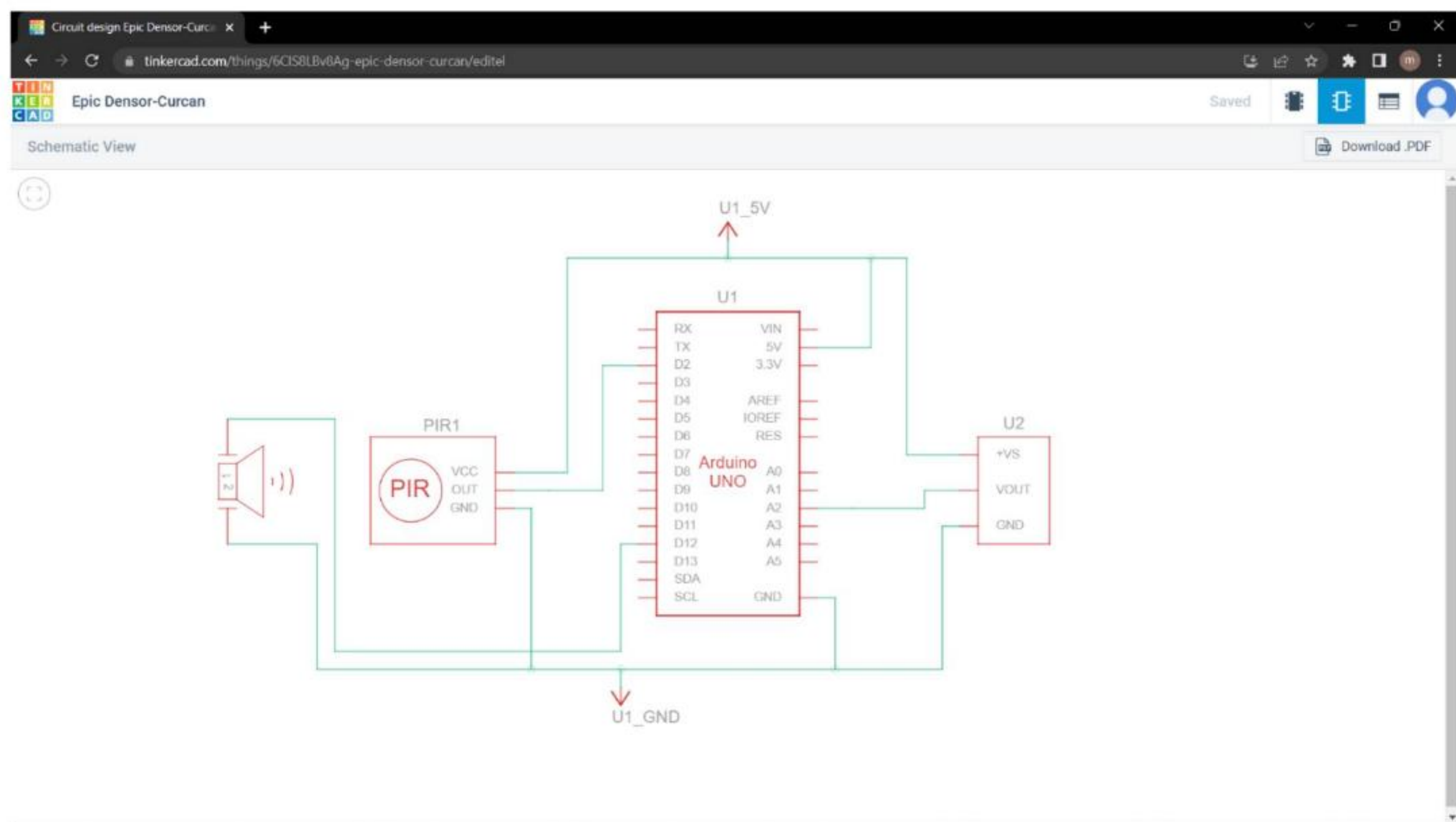
**CREATE CIRCUIT WITH PIEZO ALARM,PIR  
SENSOR,TEMPERATURE SENSOR:**

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## CIRCUIT DIAGRAM:



## SCHEMATIC DIAGRAM:



## SOURCE CODE:

```
// C++ code
//
void setup()
{
  Serial.begin(9600);
  pinMode(2, INPUT);
  pinMode(12, OUTPUT);
}

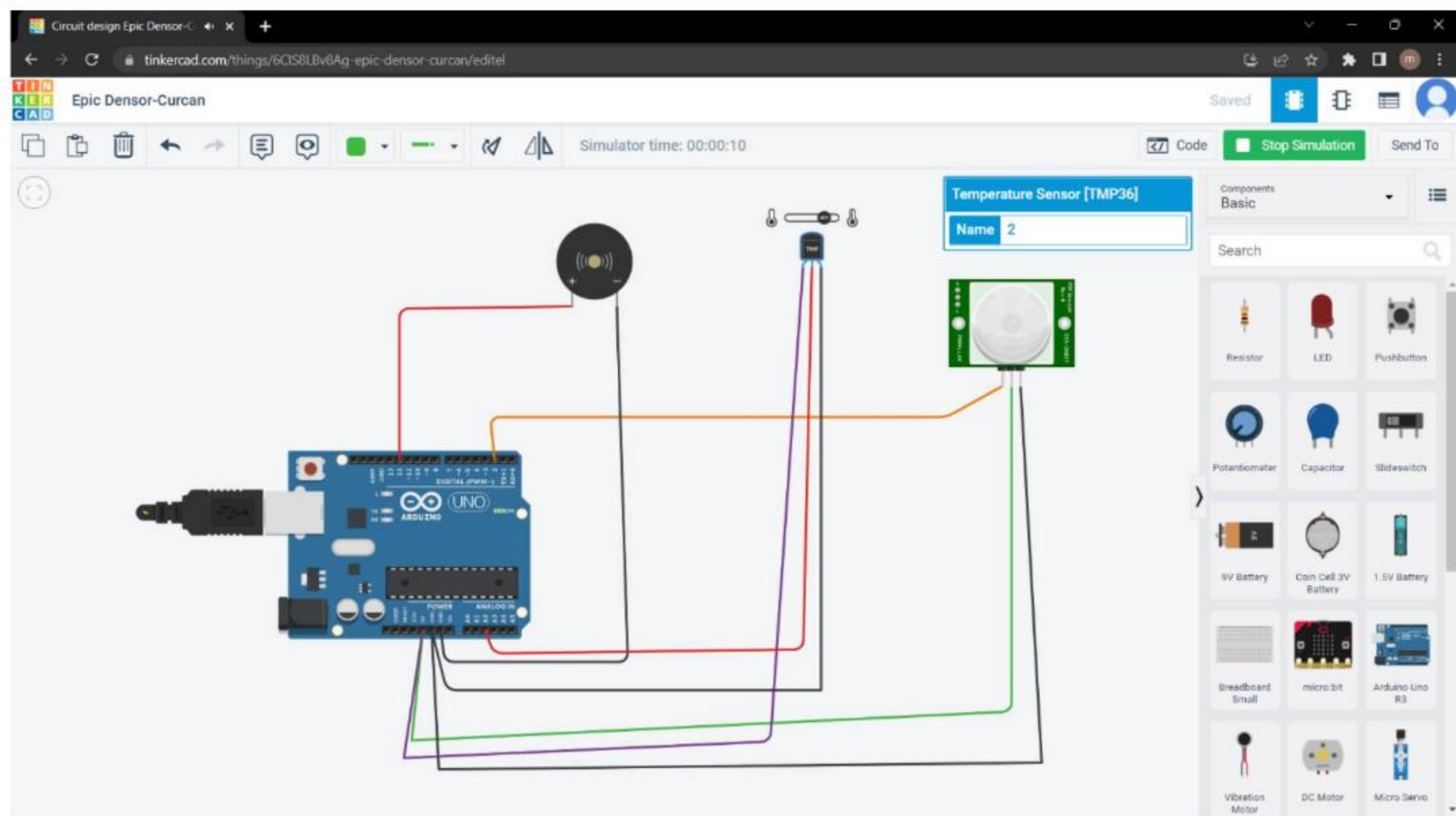
void loop()
{
  int motion=digitalRead(2);
  if(motion==1)
  {
    Serial.println("Motion is Detected!");
    tone(12,10);
    delay(1000);
  }
}
```

```
noTone(12);
delay(3000);
}
else
{
  Serial.println("No Motion!!!");
  delay(1000);
}
double data=analogRead(A2);
double n=data/1024;
double voltage=n*5;
double offsetvol=voltage-0.5;
double temp=offsetvol*100;
if(temp>60)
{
  Serial.println("Temperature higher than 60 degrees !!");
  Serial.println(temp);
  tone(12,10);
  delay(1000);
  noTone(12);
```

```
    delay(3000);  
  }  
  else  
  {  
    Serial.println("Temperature lesser than 60 degrees !!");  
    Serial.println(temp);  
    delay(1000);  
  }  
}
```



# TEMP SENSOR:



# PIR SENSOR:

