Assignment Date	19 September 2022
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Maximum Marks	2 Marks

Question:
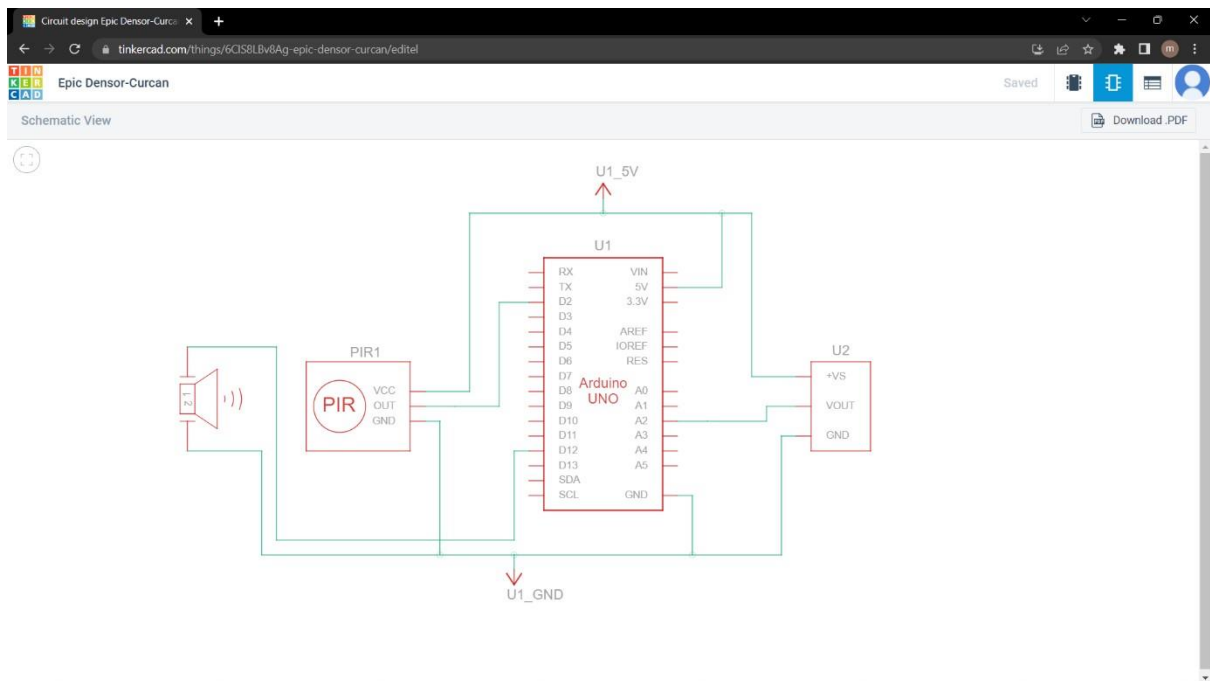
Build a smart home in Thinkercad with 2 sensors, an Led, buzzer and submit it.

Solution:

CIRCUIT DIAGRAM:
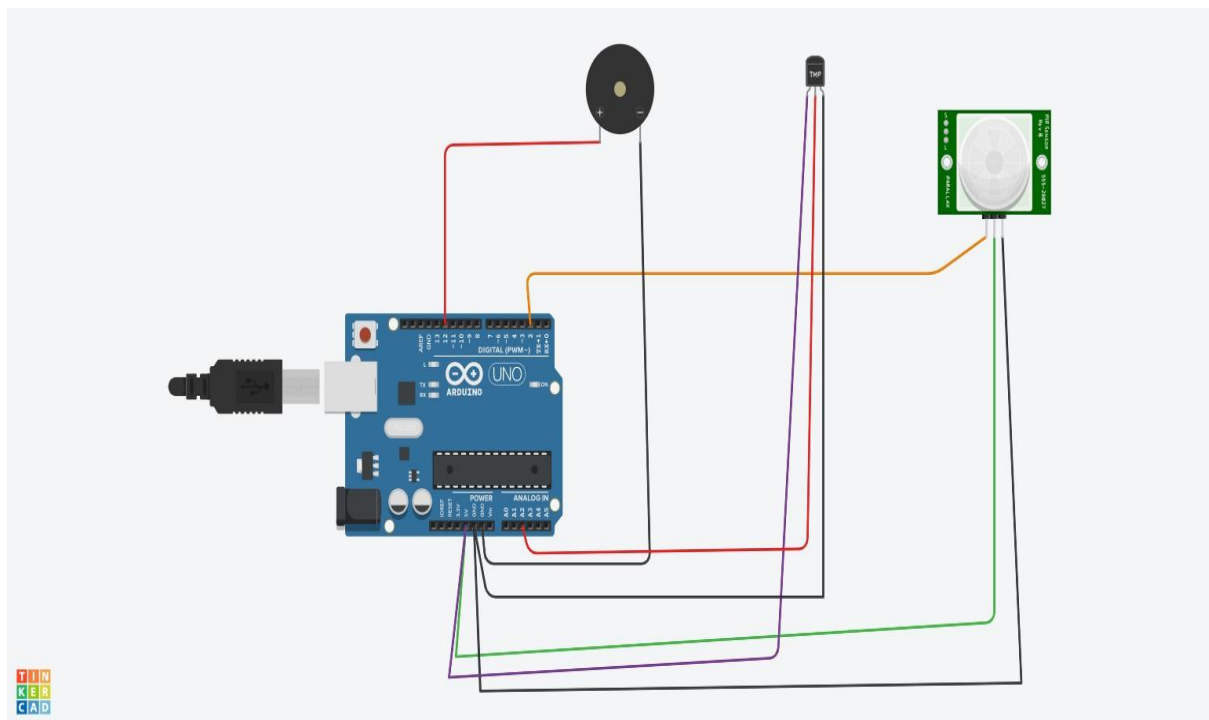
SCHEMATIC DIAGRAM:

Code:

// C++ code

// void setup()

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

```arduino
intmotion=digitalRe
ad(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);
 }
}
```