Assignment -1

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

Question-1:

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

Source code:

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


void loop() {   int
motion=digitalRead(
2);   if(motion==1)
 {
```

```arduino
    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);

  }
}
```
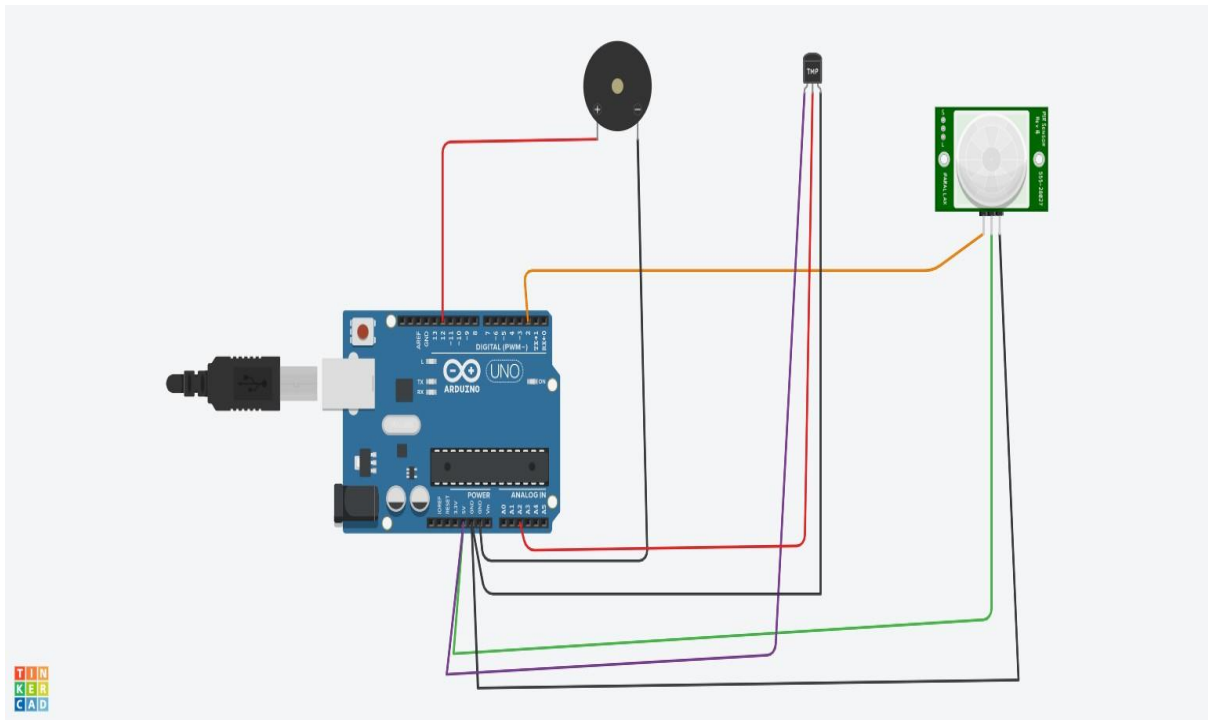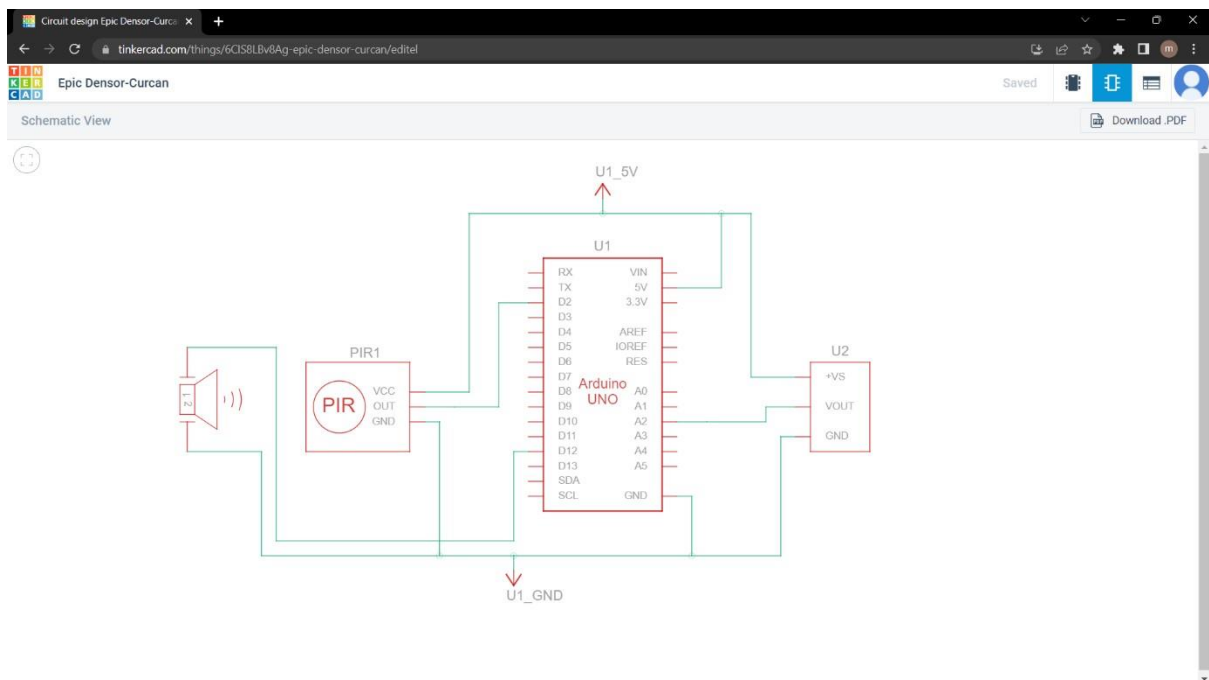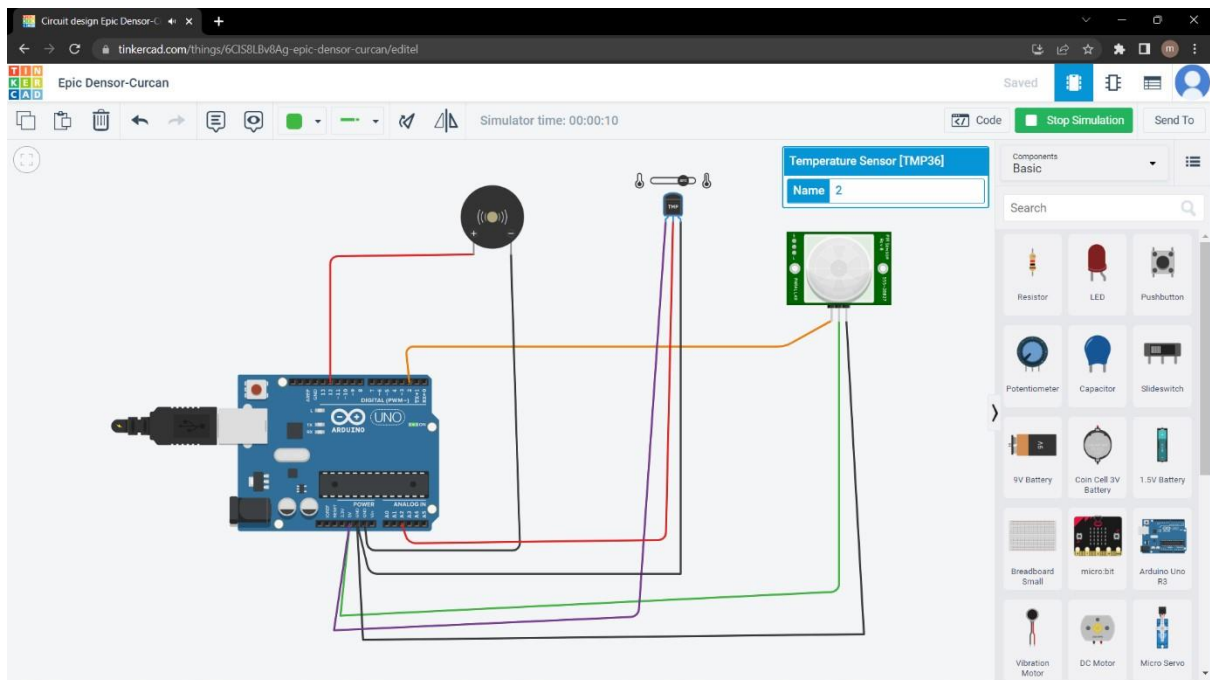
CIRCUIT DIAGRAM:

SCHEMATIC DIAGRAM:

Temp sensor:

Pir sensor: