

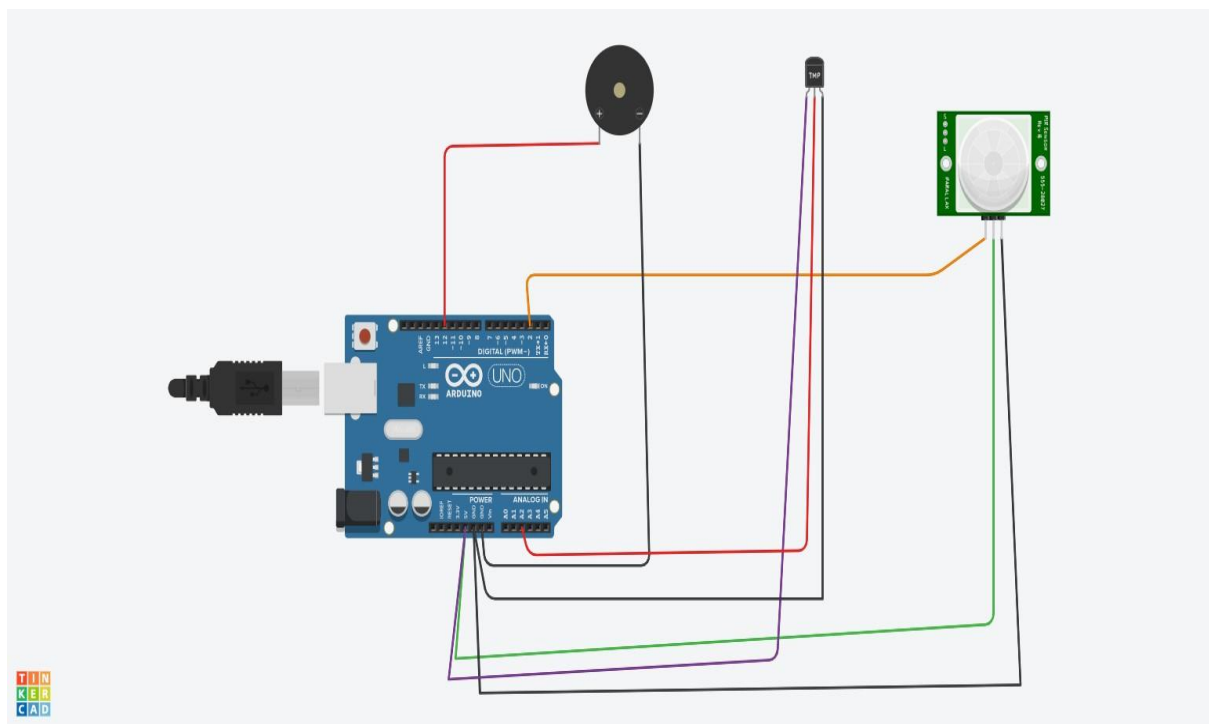
**Assignment -1**  
Python Programming

Assignment Date	19 September 2022
Student Name	Mr.G.MANIKANTA
Student Roll Number	111519106042
Maximum Marks	2 Marks

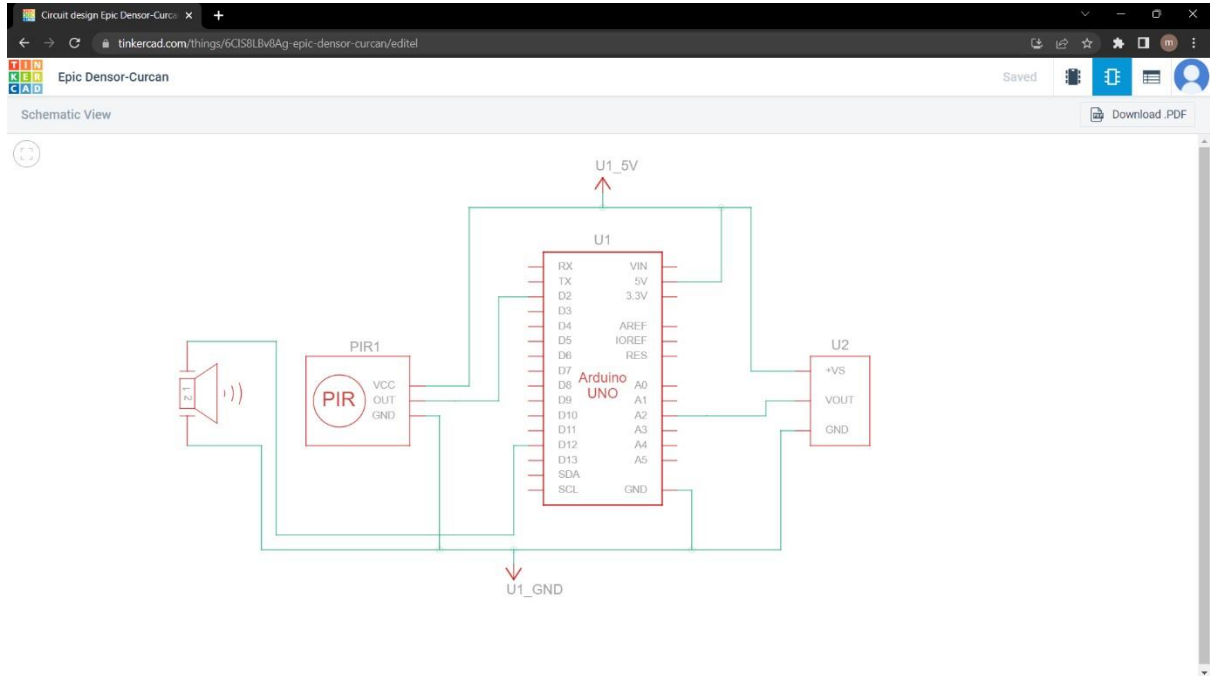
**Question-1:**

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

**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

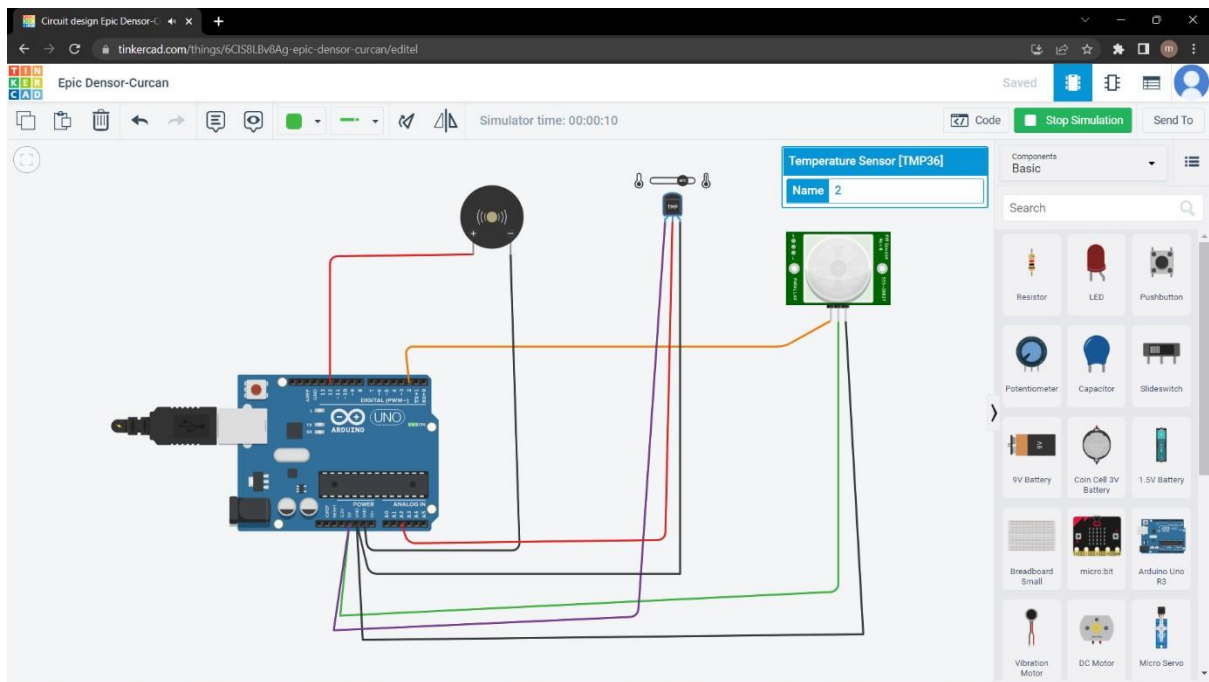
{

    Serial.println("Temperature lesser than 60 degrees !!"); Serial.println(temp);
delay(1000);

}

}
```

Temp sensor:



Pir sensor:

