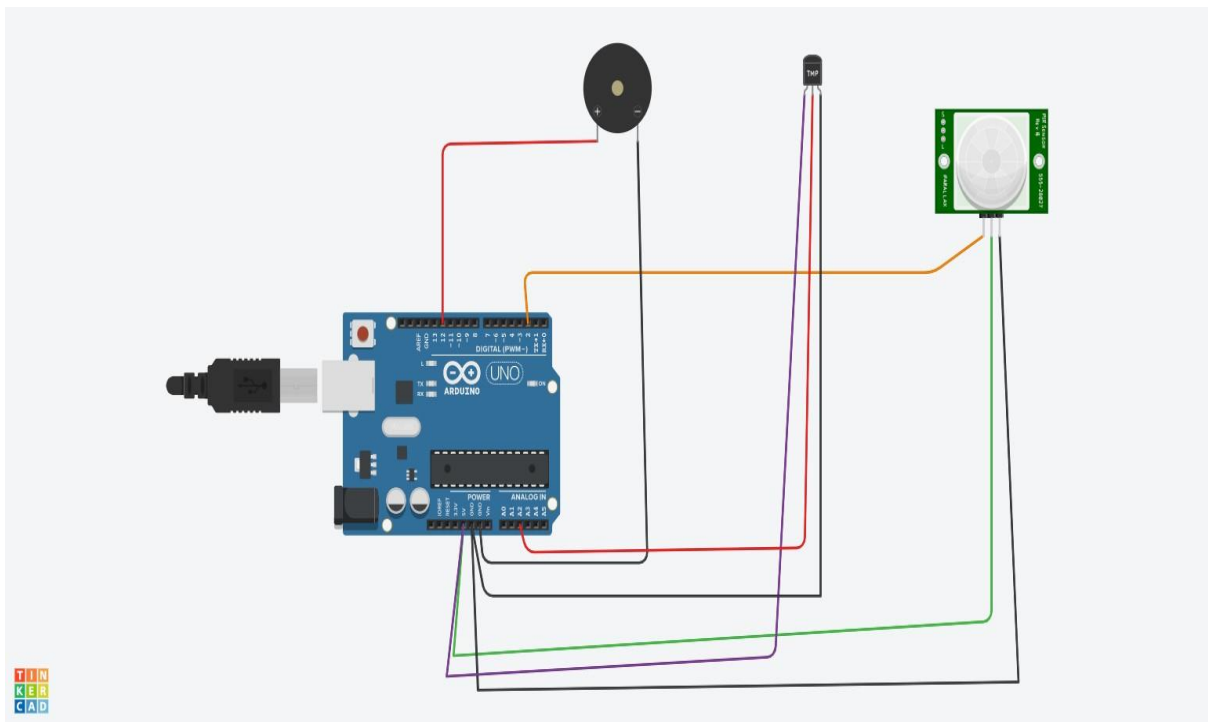


Assignment -1

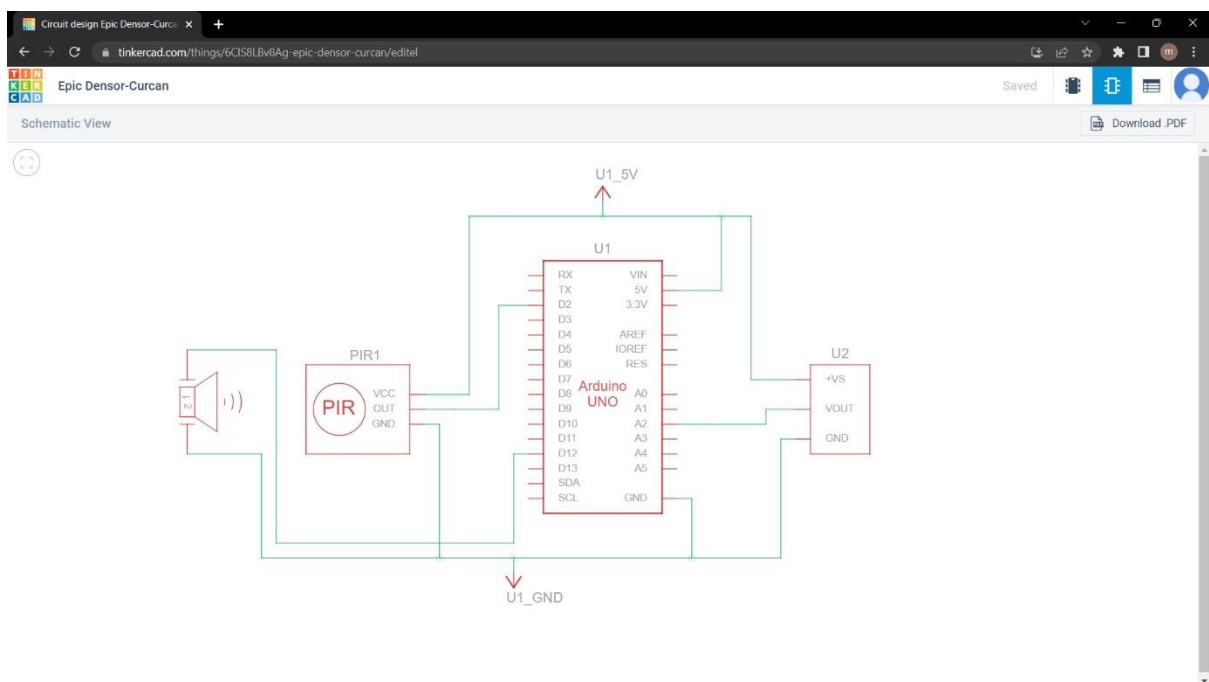
Assignment Date	19 September 2022
Student Name	Chimakurthy Mohan Nagendra Bhavani Sankar
Student Roll Number	111519106018
Maximum Marks	2 Marks

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 !!");
```

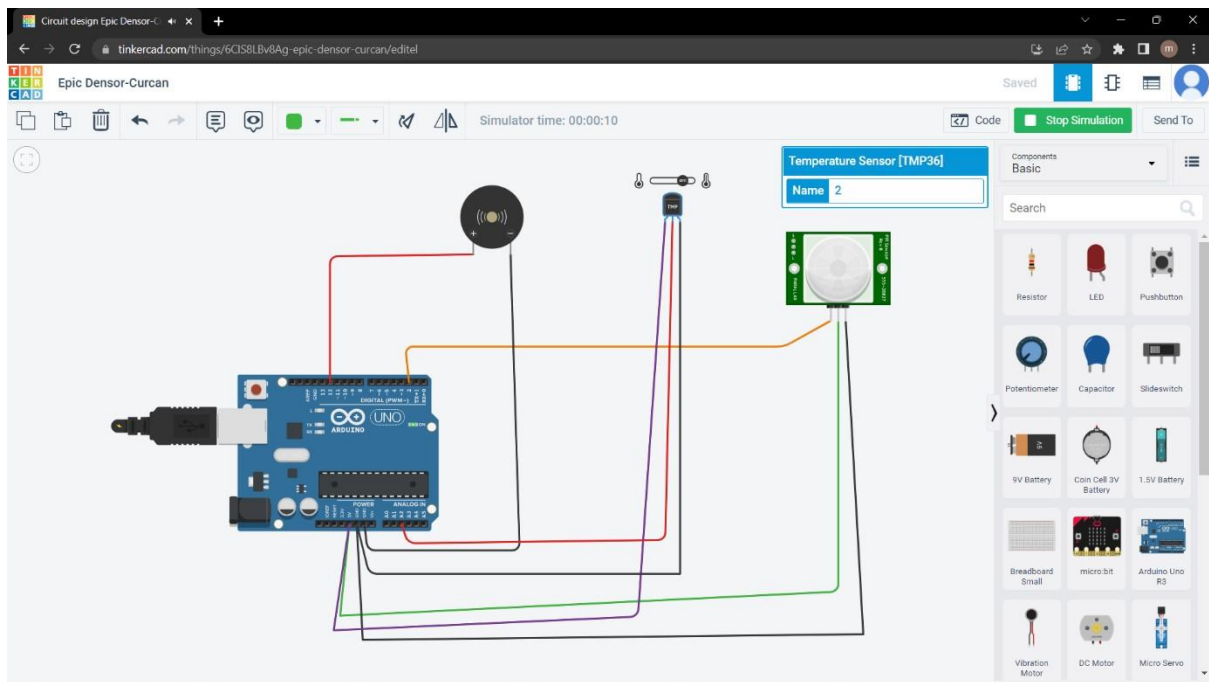
```
Serial.println(temp);
```

```
delay(1000);
```

```
}
```

```
}
```

TEMP SENSOR:



PIR SENSOR:

