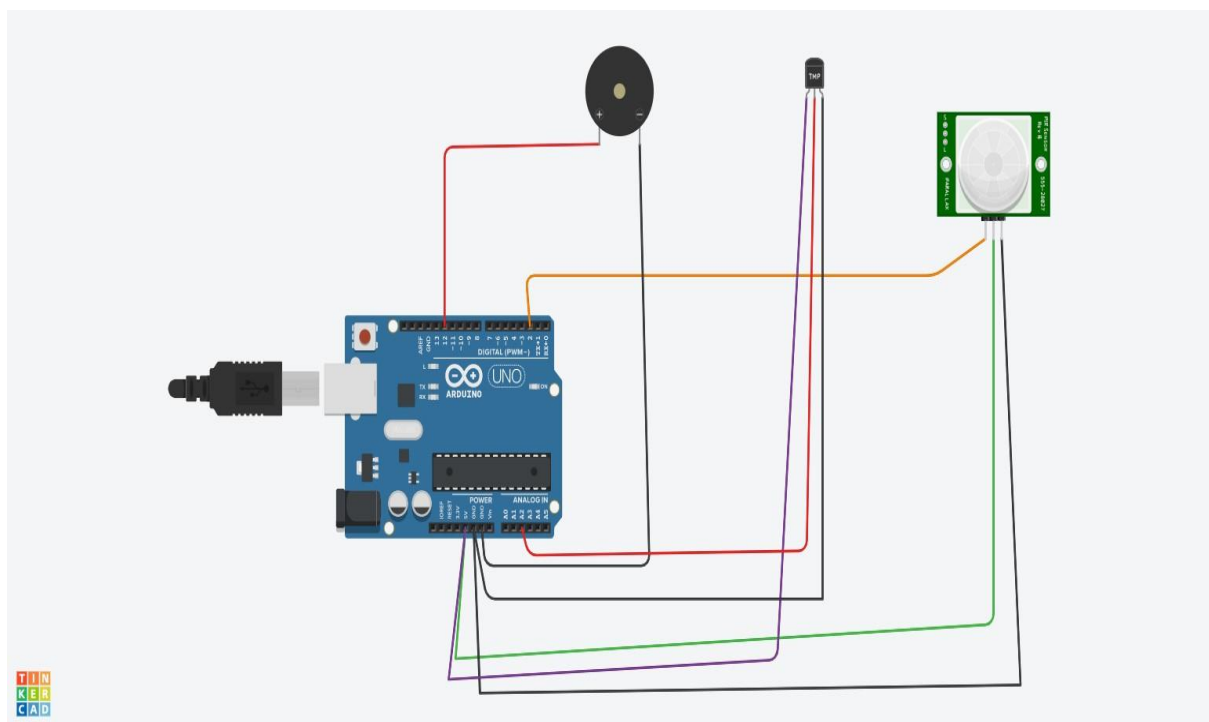


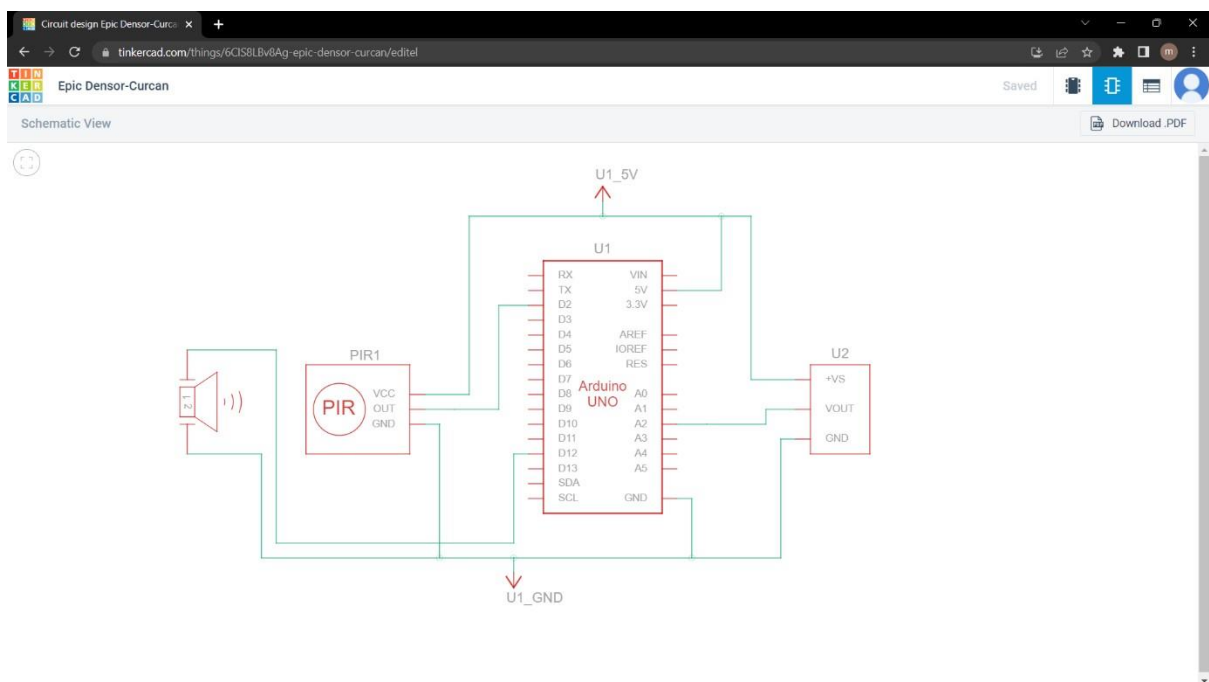
Assignment -1

Assignment Date	19 September 2022
Student Name	Divvela Jayesh
Student Roll Number	111519106028
Maximum Marks	2 Marks

Question 1: Build a smart home in Thinkercad with 2 sensors, an Led, buzzer and submit it.

CIRCUIT 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 !!");
```

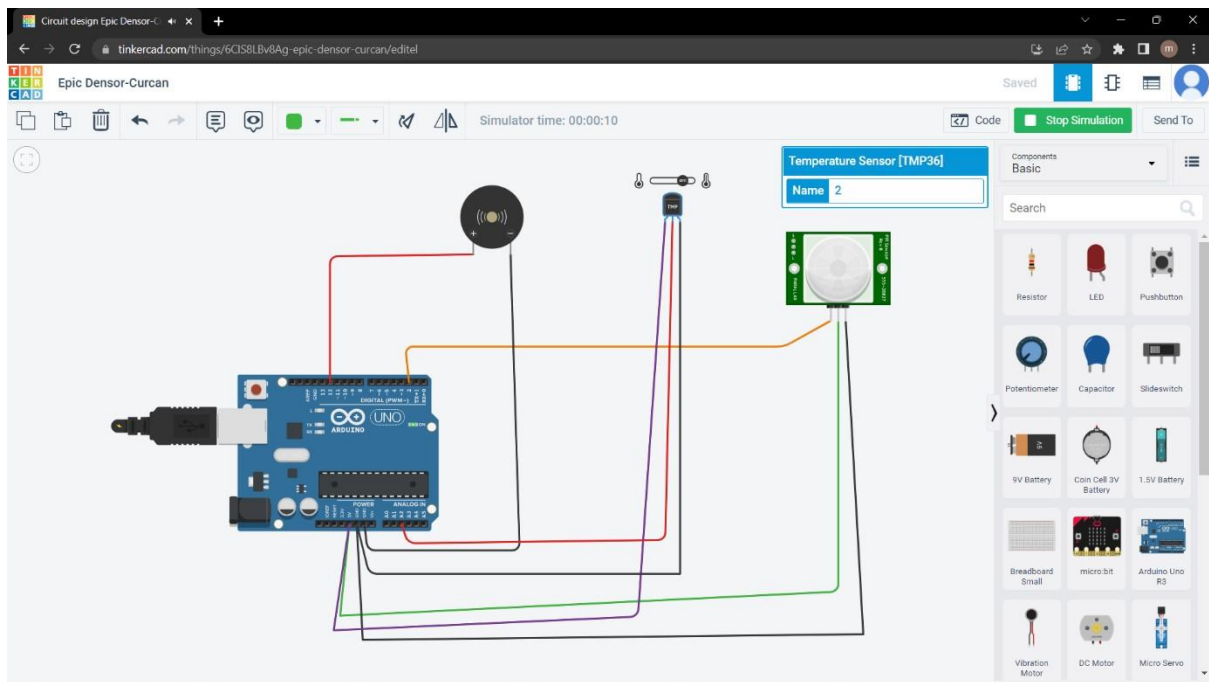
```
Serial.println(temp);
```

```
delay(1000);
```

```
}
```

```
}
```

TEMP SENSOR:



PIR SENSOR:

