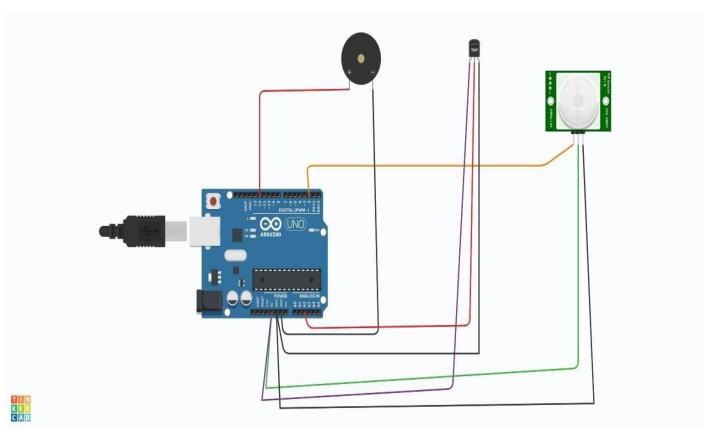
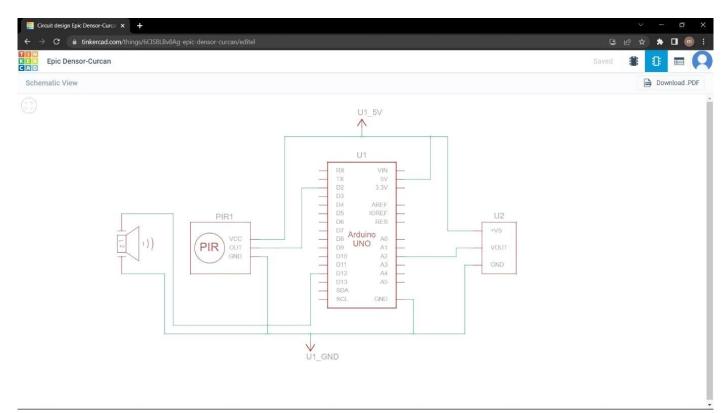
Assignment -1

Assignment Date	19 September 2022
Student Name	Gangineni chakarvathi
Student Roll Number	111519106036
Maximum Marks	2 Marks

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



CIRCUIT DIAGRAM:



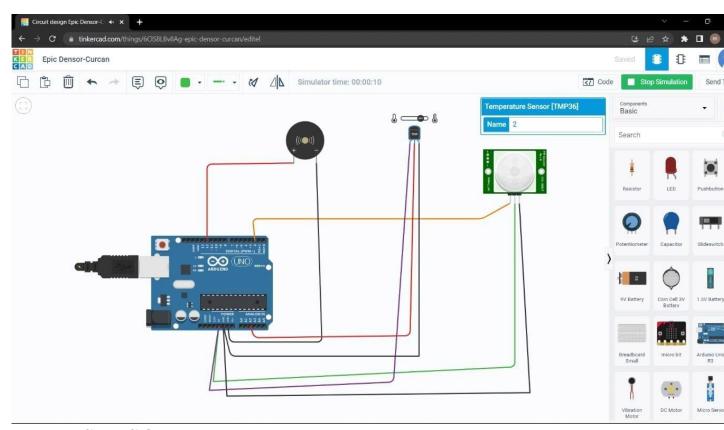
SCHEMATIC DIAGRAM:

```
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:

