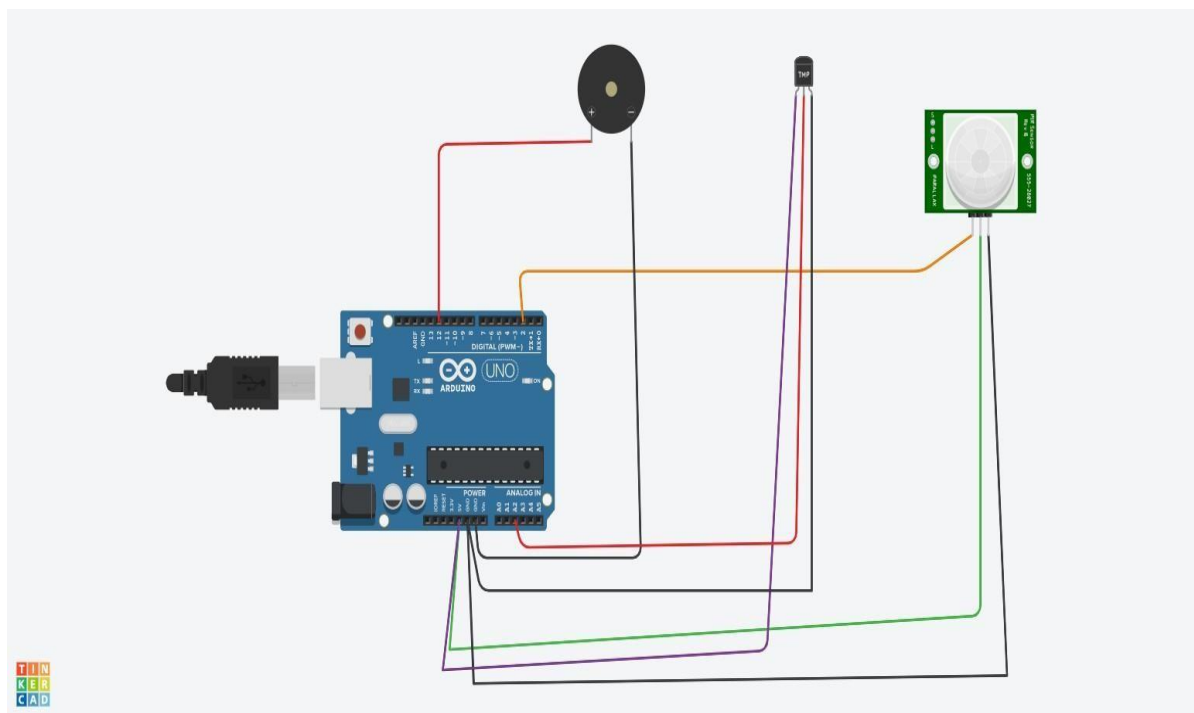


Assignment -1

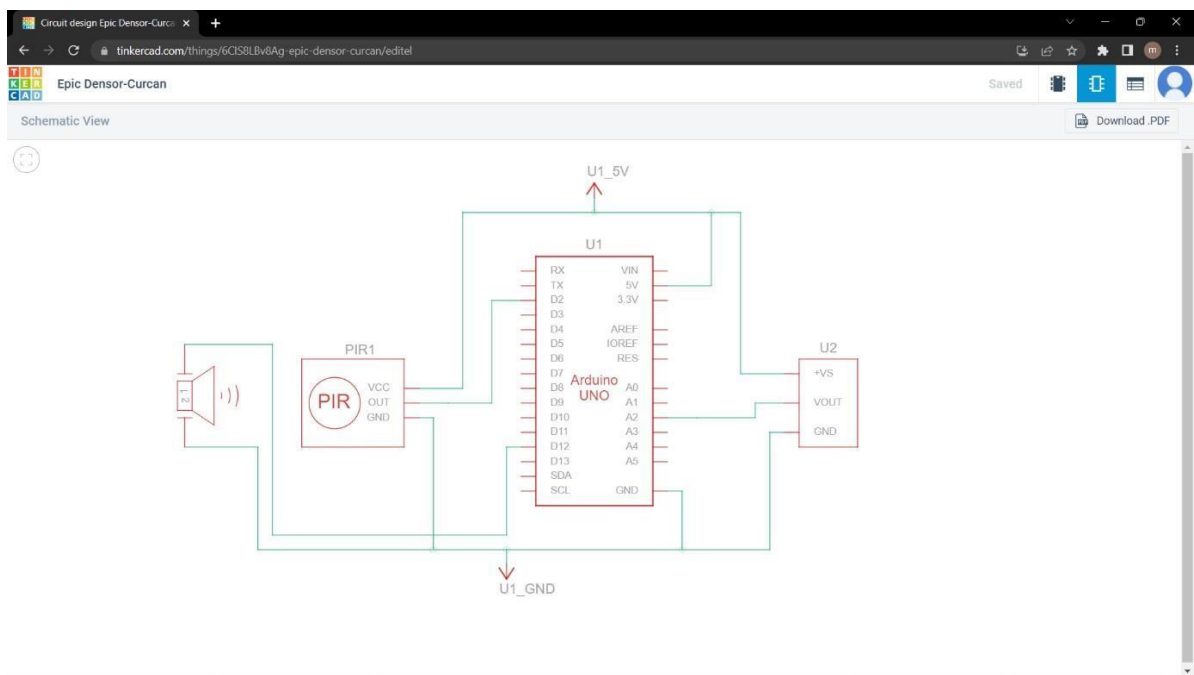
Assignment Date	19 September 2022
Student Name	Divvela Jayesh
Student Roll Number	111519106028
Maximum Marks	2 Marks

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

CIRCUIT DIAGRAM:



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 !!");
```

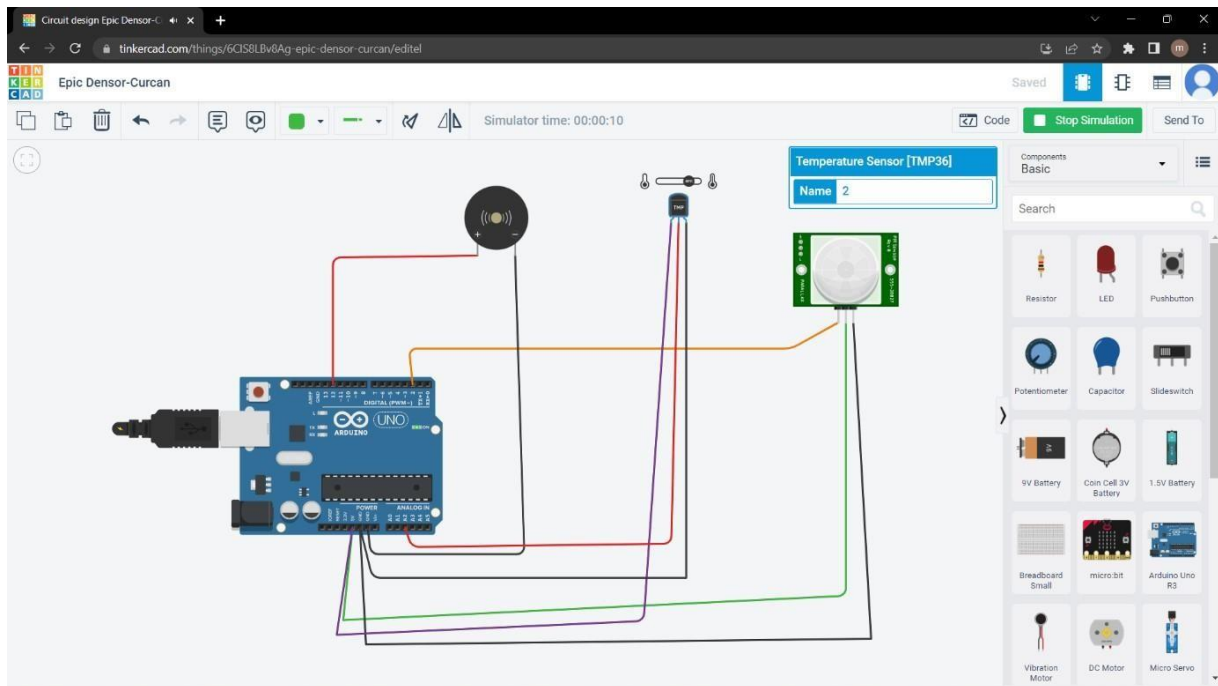
```
Serial.println(temp);
```

```
delay(1000);
```

```
}
```

```
}
```

TEMP SENSOR:



PIR SENSOR:

