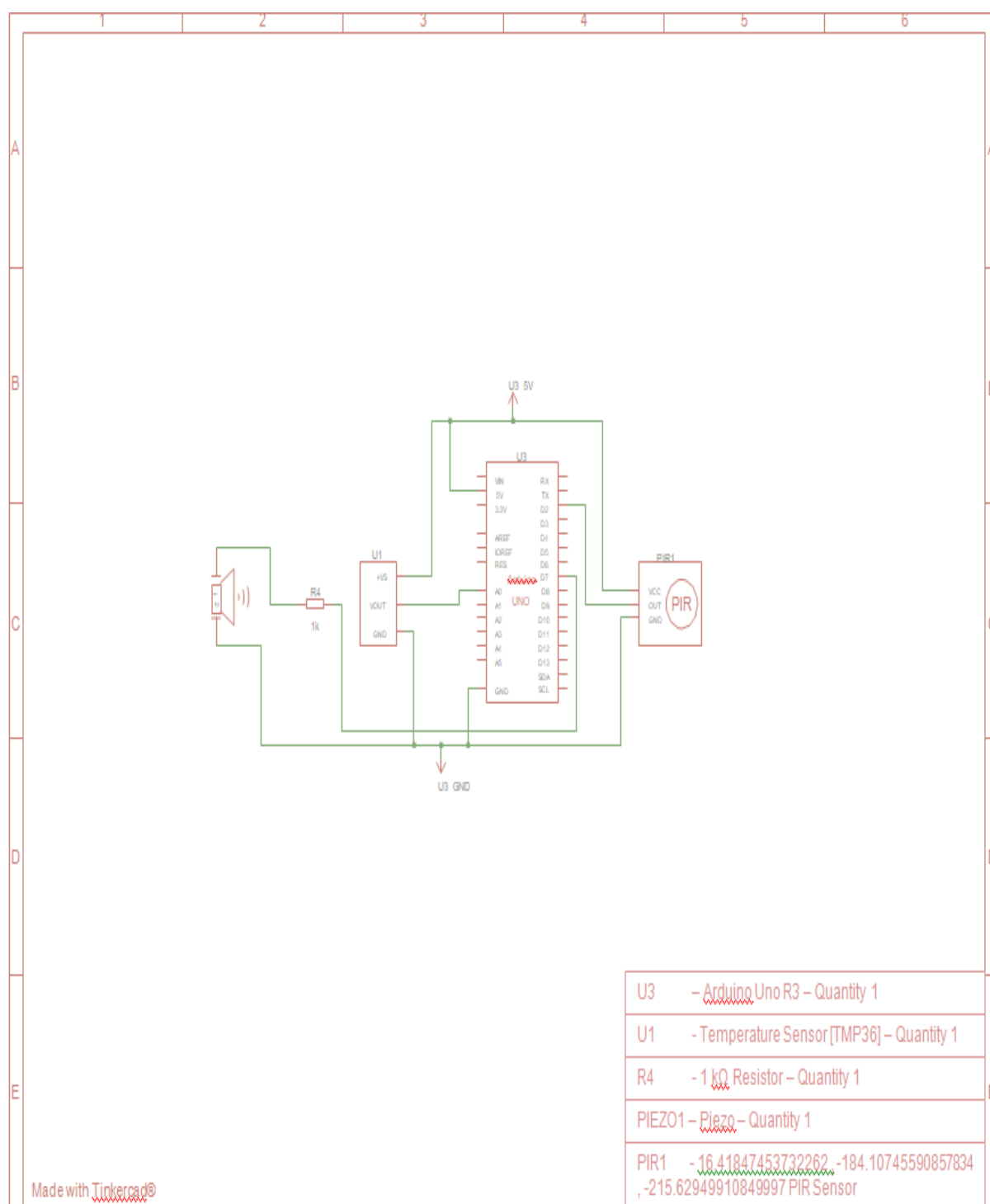


Assignment -1

Build a smart home in Thinkercad with 2 sensors, an Led and buffer

Assignment Date	12 November 2022
Team ID	PNT2022TMID44156
Student Name	Rashidha Begam
Student Roll Number	724019104018
Maximum Marks	2 Marks



Project Code:

```
int baselineTemp = 0;

int celsius = 0;

int fahrenheit = 0;

int pinSensor = 2;

int pinBuzzer = 7;

int pirSensor = 0;

void setup()
{
  pinMode(A0, INPUT);
  Serial.begin(9600);
  pinMode(pinSensor, INPUT);
  pinMode(pinBuzzer, OUTPUT);
  pinMode(7, OUTPUT);
}

void loop()
{
  baselineTemp = 60;
  pirSensor = digitalRead(pinSensor);
  celsius = map(((analogRead(A0) - 20) * 3.04), 0, 1023, -40, 125);
  fahrenheit = ((celsius * 9) / 5 + 32);
  Serial.print(celsius);
  Serial.print(" C, ");
  Serial.print(fahrenheit);
  Serial.println(" F");
  if (celsius >= baselineTemp + 1)
  {
    tone(7, 220, 100);
    delay(100);
  }
  if (pirSensor == HIGH)
```

```

{
tone(pinBuzzer, 1000, 500);
}

delay(100);
}

```

Copy of Temperature , Motion Monitoring System with a Piezo Buzzer:

