

**PAVATHARANI SHANMUGAMANI**

**19CS102**

**SMART WASTE MANAGEMENT**

**SYSTEM FOR**

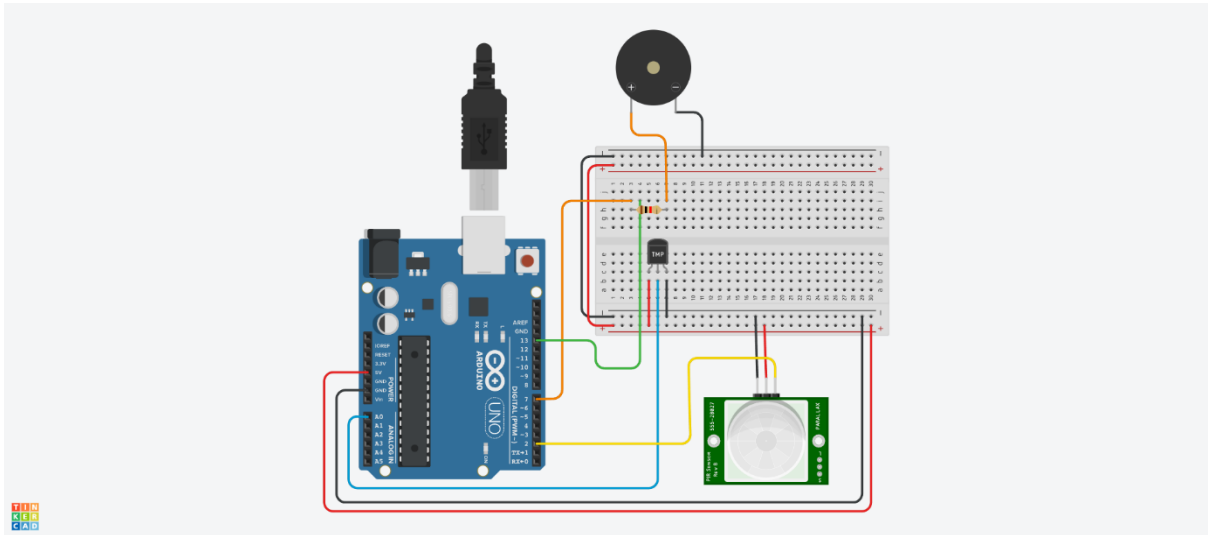
**METROPOLITAN CITIES**

**ASSIGNMENT – 1**

**Team ID : PNT2022TMID17949**

### I. Schematic Diagram

**Assignments -1 , Make a Smart Home in Tinkercad, using 2+ sensors, Led, Buzzer in single code and circuit.**



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

## II. COMPONENTS USED :

COMPONENTS LISTS	
Push Button - 1 Qty	
Red LED- 1 Qty	
Blue LED- 1 Qty	
PIEZO Buzzer- 1 Qty	
Ultrasonic Distance Sensor- 1 Qty	
PIR Sensor- 1 Qty	
Resistor (220,560,10K)- 1 Qty	
Arduino R3- 1 Qty	
Breadboard Small- 1 Qty	

### III. CODE

```
int baselineTemp = 0;
int celsius = 0;
int fahrenheit = 0;
int pinSensor = 4;

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);  
}
```