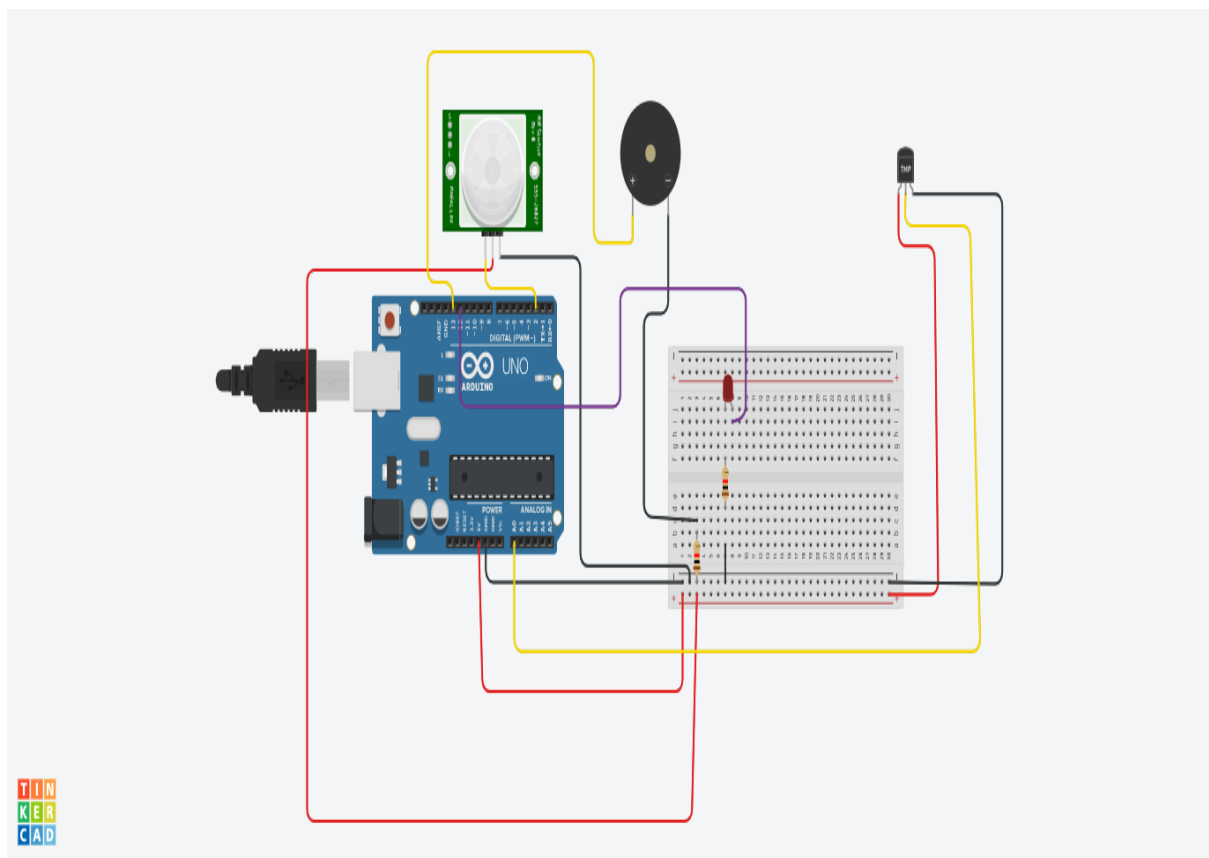


ASSIGNMENT-1

Assignment Date	17 September 2022
Student Name	Vaishali S
Student Roll Number	910019106047
Maximum mark	2 mark

Build a smart home in Thinkercad with 2 sensors, Led, buzzer and submit it



Code:

```
int baselineTemp = 0;
```

```
int celsius = 0;
```

```
int pinSensor =2;
```

```
int pinLed =12;
```

```
int pinBuzzer =13;
```

```
int pirSensor =0;
```

```
int tempSensor=A0;
```

```
void setup()
```

```
{
```

```
  pinMode(pinSensor, INPUT);
```

```
  pinMode(tempSensor, INPUT);
```

```
  Serial.begin(9600);
```

```
  pinMode(pinLed, OUTPUT);
```

```
  pinMode(pinBuzzer, OUTPUT);
```

```
}
```

```
void loop()
```

```
{
```

```
baselineTemp = 20;
```

```
celsius = map(((analogRead(tempSensor) - 20) * 3.04), 0, 1023, -40,  
125);
```

```
Serial.print(celsius);
```

```
Serial.println(" C, ");
```

```
pirSensor = digitalRead(pinSensor);
```

```
if (pirSensor == HIGH && celsius >= baselineTemp + 40)
```

```
{
```

```
    digitalWrite(pinLed, HIGH);
```

```
    tone(pinBuzzer, 1000,500);
```

```
}
```

```
else {
```

```
    digitalWrite(pinLed, LOW);
```

```
}
```

```
delay(10);
```

```
}
```