Assignment -1

Problem Statement:

lo T-Based Industry - Real-Time River Water Quality
Monitoring and Control System

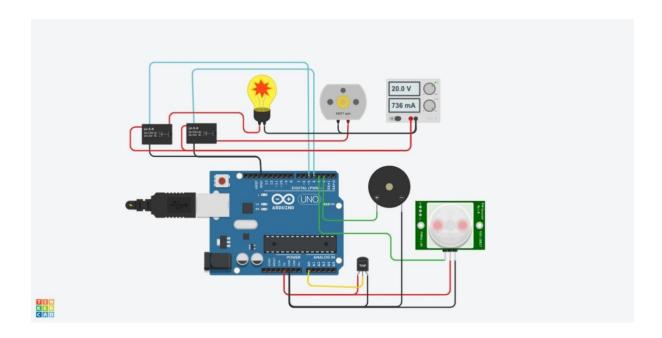
Domain: Internet of Things

Assignment Date	15 September 2022
Student Name	SWETHA R
Student Roll Number	814719106061
Maximum Marks	2 Marks

Assignment 1: Circuit design Home automation system in TinkerCad.

https://www.tinkercad.com/things/gusp6clvTVP

Circuit diagram:



Program:

```
Arduino Uno Code :
#define buzzer
                  2
                   3
#define pir
#define motor
                4
#define light
#define temp
                  A0
void setup()
  pinMode(pir, INPUT);
  pinMode(temp, INPUT);
  pinMode(buzzer, OUTPUT);
  pinMode(light, OUTPUT);
  pinMode(motor, OUTPUT);
  Serial.begin(9600);
}
void loop()
  if(digitalRead(pir)==HIGH)
  {
    digitalWrite(light, HIGH);
    digitalWrite(motor, HIGH);
  }
  else
  {
    digitalWrite(light, LOW);
    digitalWrite(motor,LOW);
  }
  if(analogRead(temp)>200)
  {
    Serial.print("high temperature alert");
    digitalWrite(buzzer,HIGH);
    delay(500);
    digitalWrite(buzzer,LOW);
    delay(400);
  }
}
```