## Assignment -1

## **Problem Statement:**

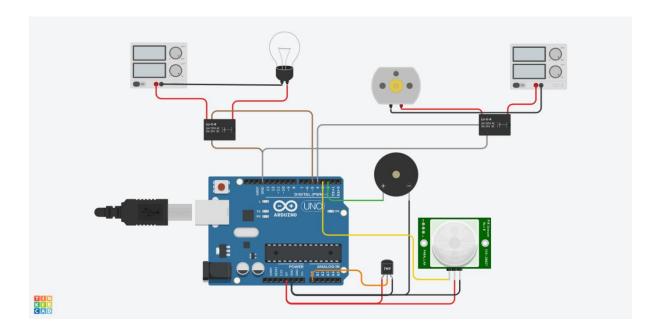
Io T-Based Industry - Real-Time River Water Quality
Monitoring and Control System

**Domain:** Internet of Things

Assignment Date	15 September 2022
Student Name	TAMIL ARASAN .M
Student Roll Number	814719106063
Maximum Marks	2 Marks

Assignment 1: Circuit design Home automation system in Tinker Cad.

## **Circuit diagram:**



## Program:

Arduino Uno Code :

```
#define buzzer
                  2
#define pir
                   3
#define motor
                4
#define light
                5
#define temp
                  Α0
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);
  }
}
```