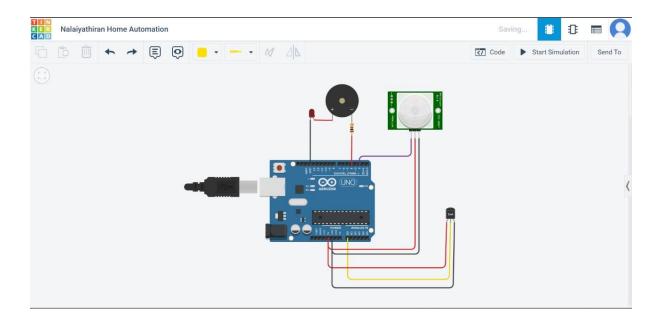
## Assignment-1

## **Circuit:**



## **Code:**

```
void setup()
{
    pinMode(2, INPUT);
    pinMode(4, OUTPUT);
    Serial.begin(9400);
}
void loop()
{
    double tempValue = analogRead(A0);
    double temperature = (((tempValue/1024)*500)-50);
```

```
Serial.print("Temperature in Celsius: ");
Serial.println(temperature);
int pirValue = digitalRead(2);
if(temperature>=50 || pirValue==1)
{
    digitalWrite(4, HIGH);
    Serial.println("Alert!!!");
    delay(1000);
}
else
{
    digitalWrite(4, LOW);
}
```

## **Output:**

