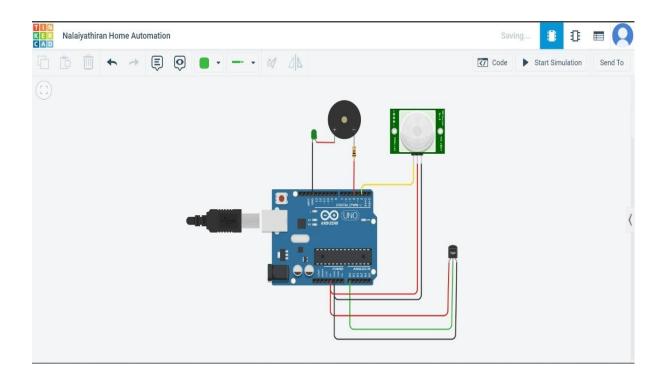
## **ASSIGNMENT-1**

## **CIRCUIT:**



## **CODE:**

```
void setup()
{
     pinMode(2, INPUT);
pinMode(4, OUTPUT);
Serial.begin(9400);
}
```

```
void loop()
{
 double tempValues = analogRead(A0);
 double temp = (((tempValues/1024)*500)-50);
 Serial.print("Temperature in Celsius: ");
 Serial.println(temp);
 int pirValue = digitalRead(2);
 if(temp>=50 || pirValue==1)
 {
  digitalWrite(4, HIGH);
  Serial.println("Alert!!!");
  delay(1000);
 }
 else
 {
  digitalWrite(4, LOW);
 }
}
```

## **OUTPUT:**

