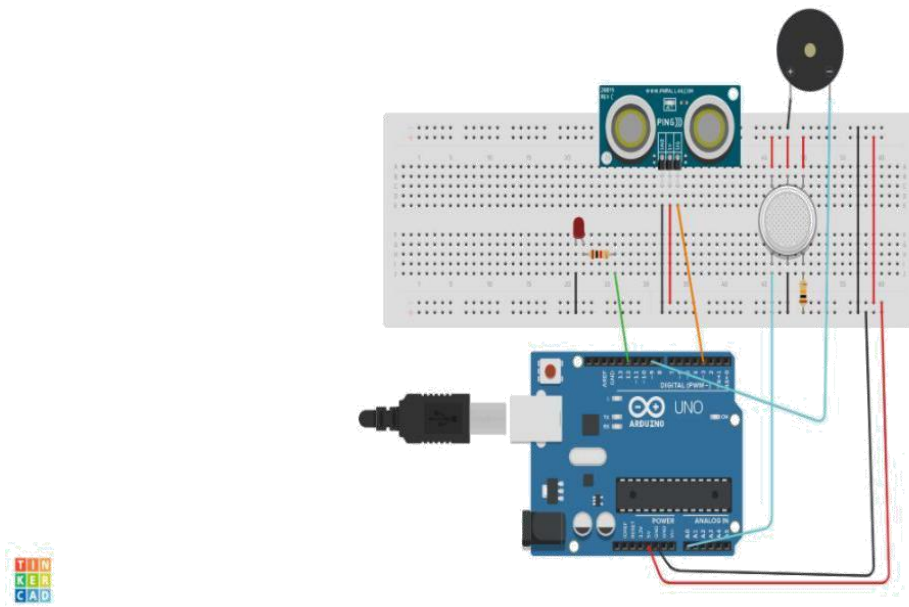


ASSIGNMENT – 1

SMART HOME AUTOMATION

Assignment Date	17 September 2022
Student Name	K SATHISHKUMAR
Student Roll Number	212219040142
Maximum Marks	2 Marks

CIRCUIT DIAGRAM:



CODE:

```
long readUltrasonicDistance(int triggerPin, int echoPin)
{
  pinMode(triggerPin, OUTPUT);
  digitalWrite(triggerPin, LOW);
  delayMicroseconds(2);
  digitalWrite(triggerPin, HIGH);
```

```

delayMicroseconds(10);
digitalWrite(triggerPin, LOW);
pinMode(echoPin, INPUT);
return pulseIn(echoPin, HIGH);
}
int val=A0;
void setup()
{
  pinMode(12, OUTPUT);
  pinMode (9,OUTPUT);
  pinMode (A0,INPUT);
  Serial.begin(9600);
}
void loop()
{
  if (0.01723 * readUltrasonicDistance(3, 3) < 30)
  {
    digitalWrite(12, HIGH);
  }
  else
  {
    digitalWrite(12, LOW);
  }
  delay(10);
  val = analogRead (A0);

```

```
if (val <500 )  
{  
digitalWrite (9, LOW);  
}  
else  
{  
digitalWrite(9, HIGH);  
}  
}
```