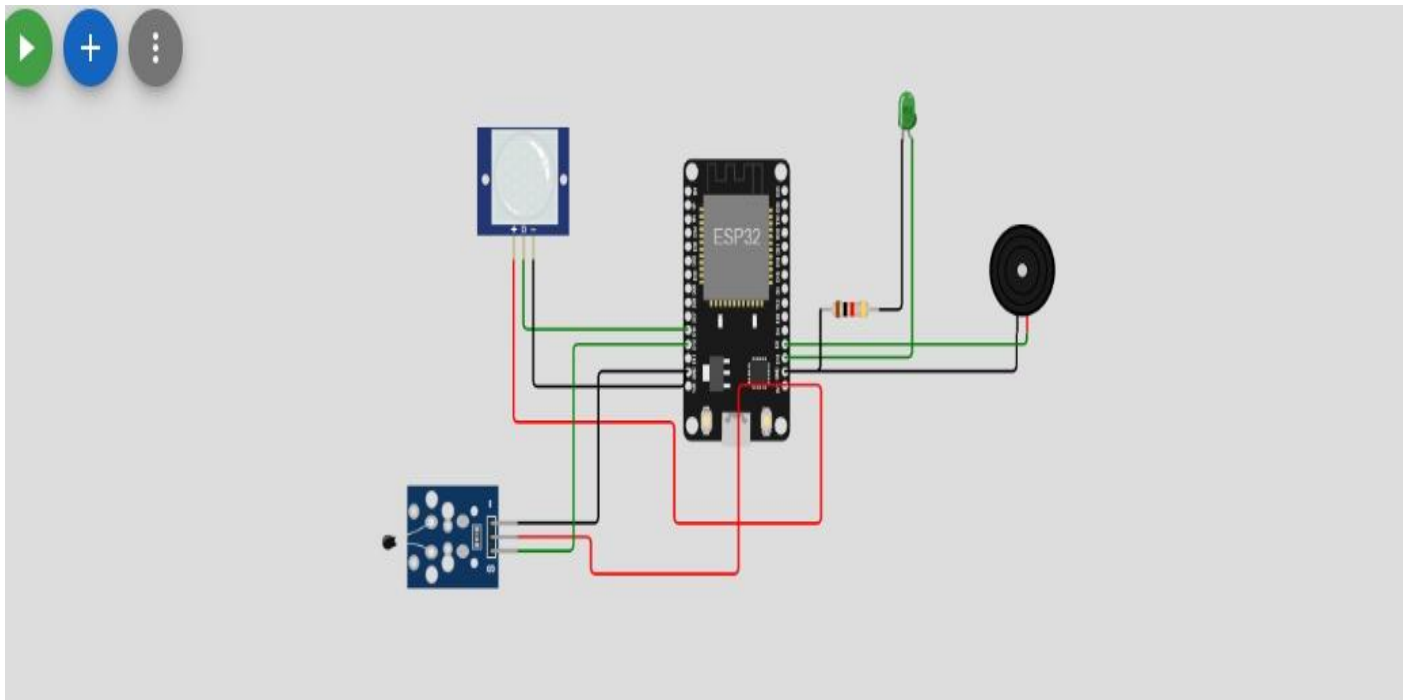


# ASSIGNMENT 1

SMART HOME USING PIR SENSOR , TEMPERATURE SENSOR,LED AND BUZZER

Circuit connection:



CODE:

```
// smart home using PIR sensor, temperature sensor, led and buzzer

#define Buzzer 2

#define Motion 14

#define Temp 12

#define Led 15

void setup() {

// put your setup code here, to run once:

Serial.begin(115200);

pinMode(Led,OUTPUT);

pinMode(Buzzer,OUTPUT);

pinMode(Temp, INPUT);

pinMode(Motion, INPUT);

}

void loop() {

// put your main code here, to run repeatedly:

int motion=digitalRead(Motion);

if(motion==HIGH){

Serial.println("Motion detected:");

digitalWrite(Led, HIGH);

digitalWrite(Buzzer, HIGH);

delay(1000); // this speeds up the simulation

}

else{

digitalWrite(Led, LOW);

digitalWrite(Buzzer, LOW);

}

int temp=analogRead(Temp);

float temperature=((temp*5.0/1023)*100);
```

```
Serial.print(temperature);
```

```
Serial.println("%c");
```

```
}
```