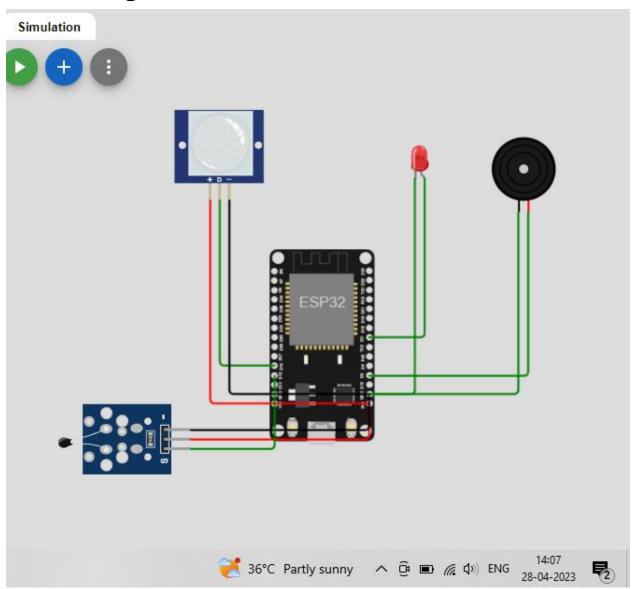
ASIGNMENT-1

Question:

- ★ Build a smart home in wokwi with minimum 2 sensors, Led, buzzer.
- → Example: pir sensor for home security, servo motor for door lock system.
- → Hint: replicate tinkercad code and connections in wokwi and integrate both codes to a single code.

Circuit diagram:



Code:

#define Buzzer 2

#define Motion 14

#define Temp 12

#define LedPin 5

```
void setup() {
 // put your setup code here, to run once:
Serial.begin(9600);
pinMode(LedPin, 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(LedPin, HIGH);
  digitalWrite(Buzzer, HIGH);
  delay(1000);
 else{
```

```
digitalWrite(LedPin, LOW);
  digitalWrite(Buzzer, LOW);
}
int temp=analogRead(Temp);
float temperature=((temp*5.0)/1023)*100;
Serial.print(temperature);
Serial.println("%C");
}
```

Output:

