

ASIGNMENT-1

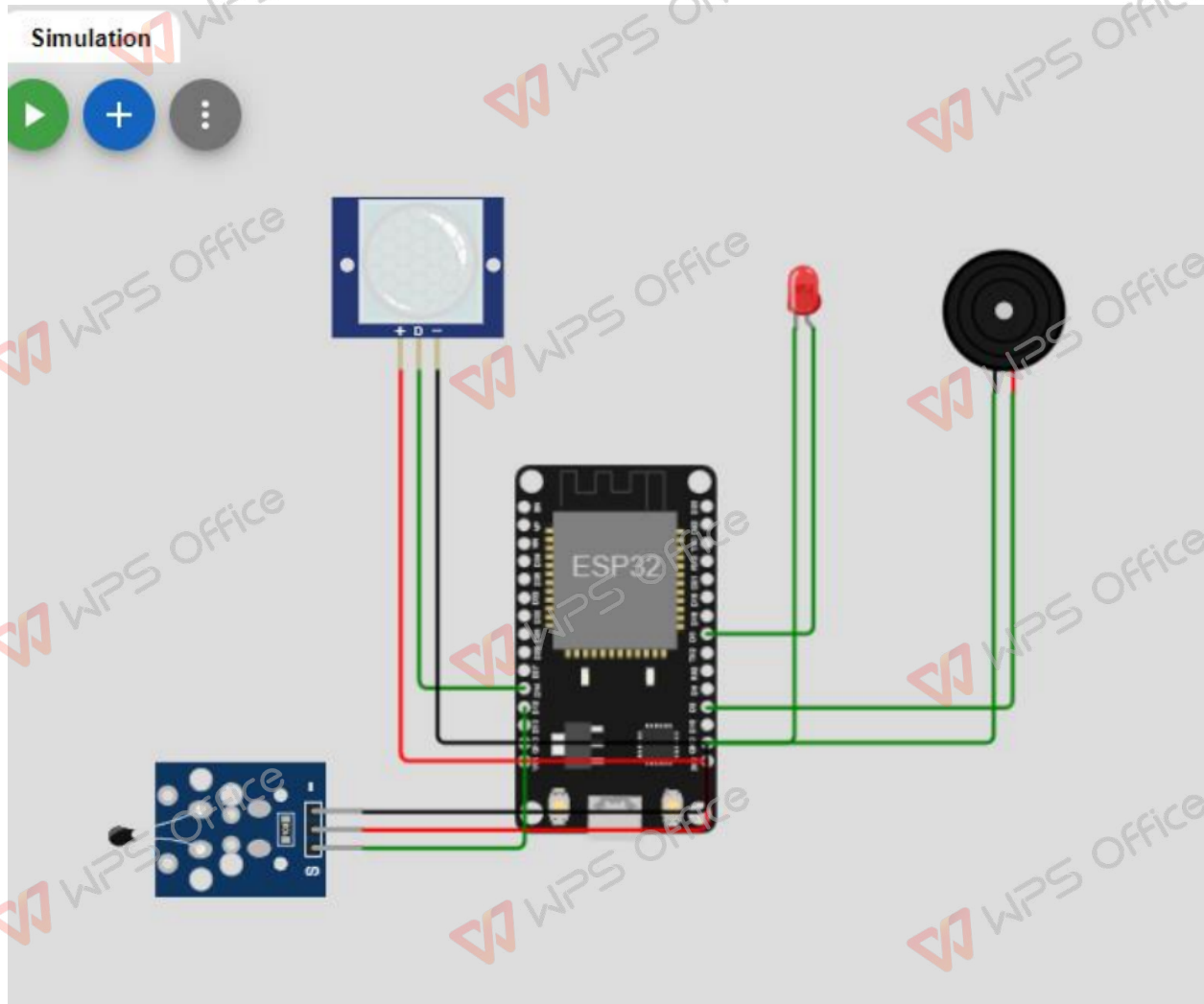
Question:

★ 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:

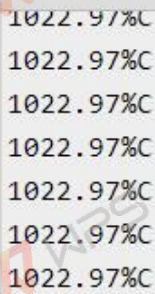


Code:

```
#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");  
}
```



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