VI WPS OFFICE

VI WPS OFFICE

MPS OFFICE

JWPS OFFICE

ASIGNMENT-1

Question:

ST WPS OFFICE

VI WPS OFFICE

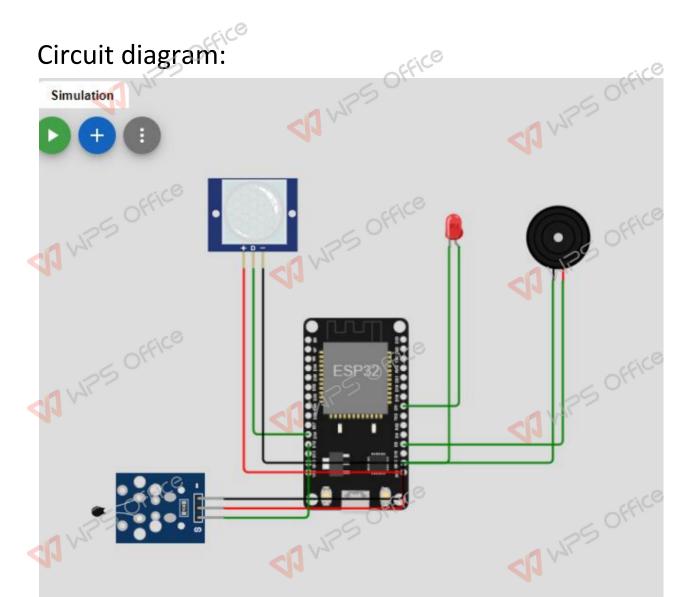
MPS OFFICE

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

VI WPS OFFICE

JUPS OFFICE

MPS OFFICE



Code:

#define Buzzer 2

MPS OFFICE #define Motion 14

#define Temp 12

#define LedPin 5

ST WPS OFFICE

MPS OFFICE

MPS OFFICE

```
void setup() {
                                           MPS OFFICE
 // put your setup code here, to run once:
Serial.begin(9600);
pinMode(LedPin, OUTPUT);
                                           MPS OFFICE
pinMode(Buzzer, OUTPUT);
pinMode(Temp, INPUT);
pinMode(Motion, INPUT);
                     MPS OFFICE
                                          VI WPS OFFICE
void loop() {
 // put your main code here, to run repeatedly:
                                           MPS OFFICE
 int motion=digitalRead(Motion);
 if(motion==HIGH){
  Serial.println("Motion Detected:");
                                     WPS OFFICE
  digitalWrite(LedPin, HIGH);
  digitalWrite(Buzzer, HIGH);
  delay(1000);
                VIPS OFFICE
                                WPS OFFICE
 else{
```

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

