PROJECT DEVELOPMENT PHASE

SPRINT – 3

SIMULATION AND CODING USING WOKWI FOR THE IOT

Details:

- This simulation is done using the Wokwi software
- Arduino uno3 is the board used for the simulation
- it consists of a PIR sensor which detects the motion when a vehicle is parked in a no-parking area.
- LED is connected in a sign shaped manner which glows when the vehicle is detected.
- Coding is done in a way that it is linked to the cloud using node-red app.

CONNECTIONS:
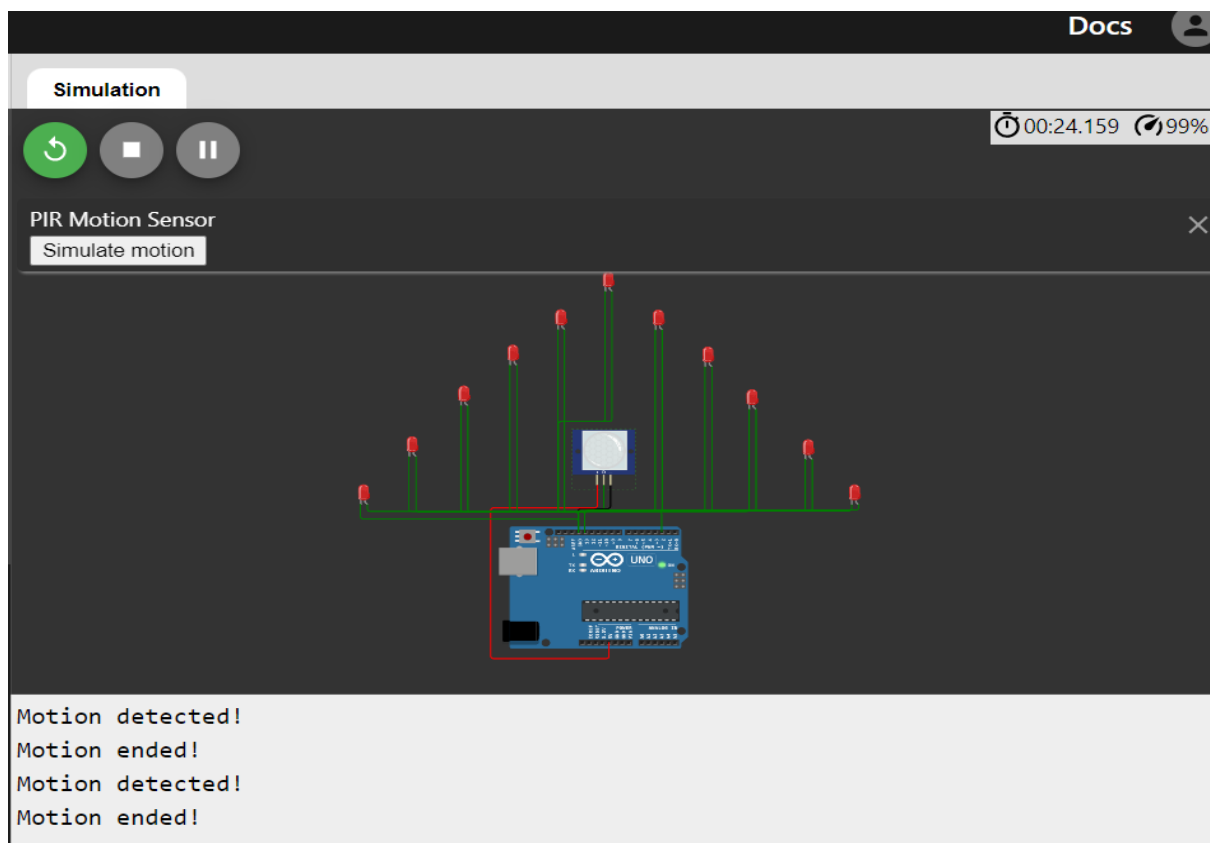
CODE:

```
int ledPin = 13;
int inputPin = 2;
int pirState = LOW;
int val = 0;

void setup() {
  pinMode(ledPin, OUTPUT);
  pinMode(inputPin, INPUT);
  Serial.begin(9600);
}

void loop() {
  val = digitalRead(inputPin);
  if (val == HIGH) {
    digitalWrite(ledPin, HIGH);
    if (pirState == LOW) {
      Serial.println("Motion detected!");
      pirState = HIGH;
    }
  } else {
    digitalWrite(ledPin, LOW);
    if (pirState == HIGH) {
     Serial.println("Motion ended!");

      pirState = LOW;
    }
  }
}
```

Note: further code involving the link to cloud will be done in the next sprint.