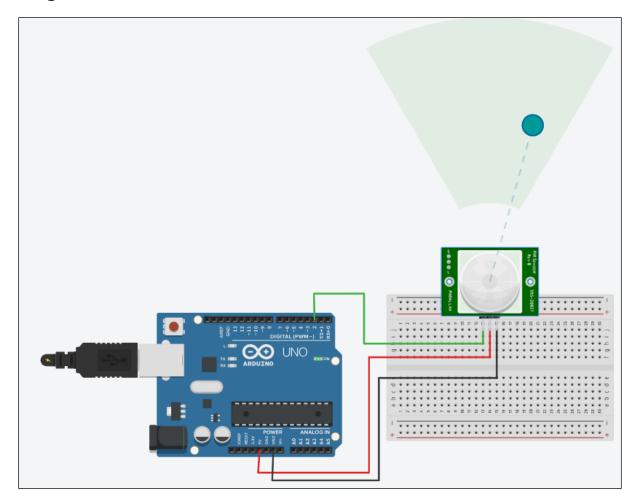
## SIT 315 PROGRAMMING PARADIGMS TASK M1\_T1P

Git Hub Link: <a href="https://github.com/Diya397/Task-M1\_T1P.git">https://github.com/Diya397/Task-M1\_T1P.git</a>

## Diagram



## **Serial Monitor Readings**

```
10 ◀
" Serial Monitor
No motion detected. LED OFF
No motion detected. LED OFF
No motion detected. LED OFF
Motion detected! LED ON
No motion detected. LED OFF
No motion detected. LED OFF
Motion detected! LED ON
Motion detected! LED ON
Motion detected! LED ON
No motion detected. LED OFF
No motion detected. LED OFF
No motion detected. LED OFF
```

## Code

```
AA ▼
                                                                        1 (Arduino Uno R3) •
Text
                                <u>*</u>
 1 #define PIR SENSOR 2 \ //\ Motion sensor connected to digital pin 2
 2 #define LED 13 // Built-in LED on pin 13
 4 void setup() {
       pinMode(PIR_SENSOR, INPUT);
 6
        pinMode(LED, OUTPUT);
        Serial.begin(9600);
 8
   }
10 void loop() {
       int motion = digitalRead(PIR_SENSOR); // Read PIR sensor value
12
13
       if (motion == HIGH) {    // If motion is detected
    digitalWrite(LED, HIGH);    // Turn built-in LED ON
14
1.5
16
            Serial.println("Motion detected! LED ON");
17
        } else {
            digitalWrite(LED, LOW); // Turn built-in LED OFF
18
19
            Serial.println("No motion detected. LED OFF");
       delay(1000); // Delay for stability
22
23 }
```