```
const int PIR_SENSOR_OUTPUT_PIN = 4;
                         // Initialize warm_up to 0
int warm up;
void setup()
{
   pinMode(PIR SENSOR OUTPUT PIN, INPUT);
   Serial.begin(9600);
                     // Allow time for the sensor to warm up
   delay(20000);
}
void loop()
    int sensor_output;
    sensor_output = digitalRead(PIR_SENSOR_OUTPUT_PIN);
    if (sensor_output == LOW) // No object detected
       if (warm up == 1) {
           Serial.print("Warming up\n\n");
                                                // Print warming up message
           warm up = 0;
                                       // Reset warm up to 0
                                       // Delay for 20 seconds
           delay(20000);
       Serial.print("NO object detected\n\n");
                                                    // Print no object detected message
       delay(1000);
                                       // Delay for 1 second
    } else {
       Serial.print("Object Detected\n\n");
                                                      // Print object detected message
       warm up = 1;
                                       // Set warm up to 1
                                       // Delay for 1 second
       delay(1000);
```

