

Start

Initialize ESP32, Sensors, Wi-Fi

Read LDR Value

Is LDR \leq 500 (Dark)?

Turn LED OFFSend "OFF" to Cloud

Read PIR Value

Is PIR HIGH?

Dim LED (20%)Send "DIM" to Cloud

Turn LED ON (100%)Send "ON" to Cloud

Check for Faults

Fault Detected?

Delay 1s

Loop

