OUTPUT:

Sensor Readings Over Time

System Component Status

OUTPUT:

Sensor Readings Over Time

System Component Status
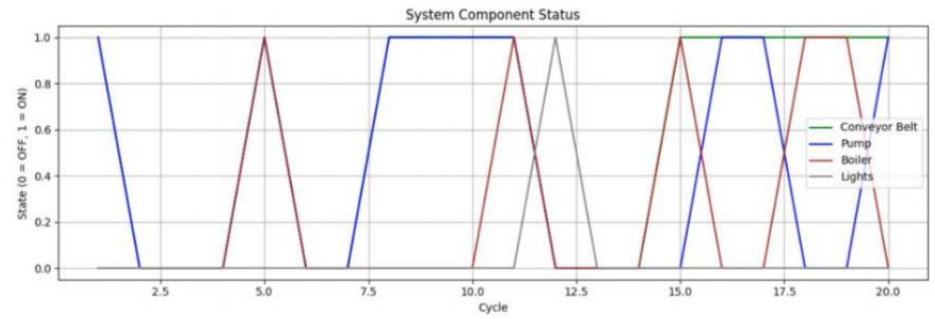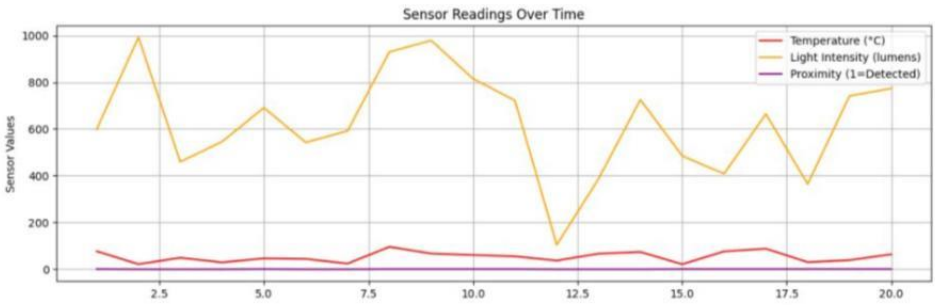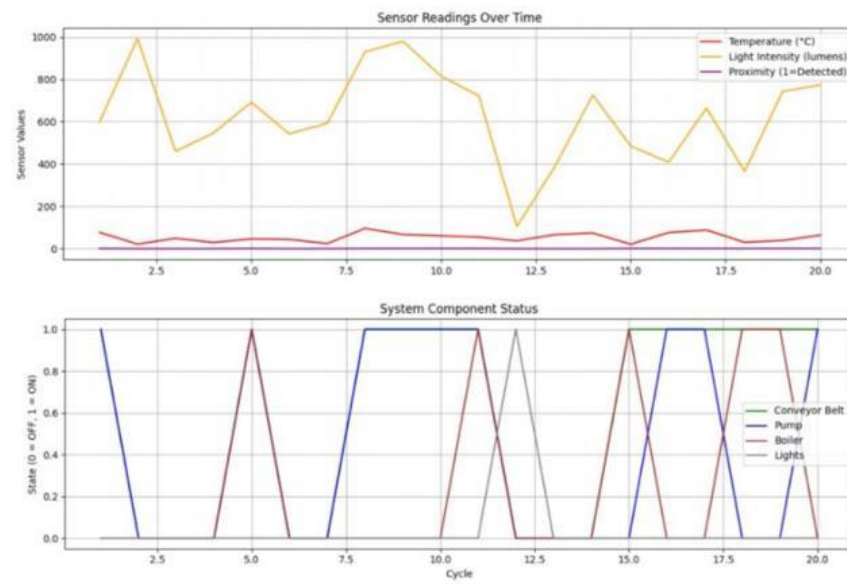
OUTPUT:

```
Starting Smart Conveyor Belt System Simulation...

--- Cycle 1 ---
Proximity Detected: True
Temperature: 60.14 °C
Light Intensity: 837.20 lumens
Conveyor Belt: ON
Pump: ON
Boiler: OFF
Lights: OFF


--- Cycle 2 ---
Proximity Detected: True
Temperature: 93.90 °C
Light Intensity: 480.35 lumens
Conveyor Belt: ON
Pump: ON
Boiler: OFF
Lights: OFF


--- Cycle 3 ---
Proximity Detected: True
Temperature: 45.77 °C
Light Intensity: 341.36 lumens
Conveyor Belt: ON
```

```
Pump: ON
Boiler: ON
Lights: OFF


--- Cycle 4 ---
Proximity Detected: False
Temperature: 52.55 °C
Light Intensity: 769.41 lumens
Conveyor Belt: OFF
Pump: OFF
Boiler: OFF
Lights: OFF


--- Cycle 5 ---
Proximity Detected: False
Temperature: 33.95 °C
Light Intensity: 434.12 lumens
Conveyor Belt: OFF
Pump: OFF
Boiler: OFF
Lights: OFF


--- Cycle 6 ---
Proximity Detected: True
Temperature: 53.75 °C
Light Intensity: 288.32 lumens
```

```
Light Intensity: 288.32 lumens
Conveyor Belt: ON
Pump: ON
Boiler: ON
Lights: ON


--- Cycle 7 ---
Proximity Detected: False
Temperature: 81.96 °C
Light Intensity: 190.22 lumens
Conveyor Belt: OFF
Pump: OFF
Boiler: OFF
Lights: ON


--- Cycle 8 ---
Proximity Detected: True
Temperature: 58.97 °C
Light Intensity: 647.44 lumens
Conveyor Belt: ON
Pump: ON
Boiler: ON
Lights: OFF
```

```
--- Cycle 9 ---
Proximity Detected: True
Temperature: 79.12 °C
Light Intensity: 981.50 lumens
Conveyor Belt: ON
Pump: ON
Boiler: OFF
Lights: OFF


--- Cycle 10 ---
Proximity Detected: True
Temperature: 73.41 °C
Light Intensity: 919.30 lumens
Conveyor Belt: ON
Pump: ON
Boiler: OFF
Lights: OFF
```