

Question:

A conveyor is supposed to have exactly 45 parts on it. You have three indicating lights to indicate the conveyor count status: less than 45, yellow: exactly 45, green: and more than 45, red. The count of parts on the conveyor is set at 45 each morning by an actual count of parts. There are two sensors on the conveyor, one is actuated by parts entering the conveyor, and the other is actuated by parts leaving. Design a PLC program to carry out this process.

PROBLEM_04 (PRG-LD)

```
0001 PROGRAM PROBLEM_04
0002 VAR
0003     SENSOR_1: BOOL;
0004     SENSOR_2: BOOL;
0005     RESET_COUNTER: BOOL;
0006     LOAD_COUNTER: BOOL;
0007     CV_1: INT;
0008     C1: CTUD;
0009     YELLOW: BOOL;
0010     GREEN: BOOL;
0011     RED: BOOL;
0012 END_VAR
```

