**Demo Yazılım 2**

**### Instruction List Breakdown**

| Instruction | Address/Data | Description |

|-------------|-------------|---------------------------------------------|

| LOD | 0 | Load value 0 |

| OUT | 200 | Output to address 200 |

| LOD | 1 | Load value 1 |

| OUT | 201 | Output to address 201 |

| LOD | 2 | Load value 2 |

| OUT | 202 | Output to address 202 |

| LOD | 2 | Load value 2 |

| LOD | 3 | Load value 3 |

| COUNTER | 900 | Counter at address 900 |

| | 5 | Preset value for counter |

| OUT | 203 | Output to address 203 |

| LOD | 900 | Load counter value |

| FUNC 147 | 25 | Some function (e.g., compare, depends on PLC)|

**### LADDER DIAGRAM Breakdown**

|----[ ]----( )----| // LOD 0, OUT 200

| 0 200 |

|----[ ]----( )----| // LOD 1, OUT 201

| 1 201 |

|----[ ]----( )----| // LOD 2, OUT 202

| 2 202 |

|----[ ]----[ ]----[CTU]----( )----| // LOD 2, LOD 3, COUNTER 900, OUT 203

| 2 3 900(Preset:5) 203

|----[ ]----[FUNC]----| // LOD 900, FUNC 147 (e.g., compare with 25)

| 900 25 |

#include "PLC.h"

PLC plc;

void setup() {

Serial.begin(9600); // open the serial port at 9600 bps:

plc.init();

delay(1500);//Delay to let system boot

}

void loop() {

    plc.load(0);

    plc.out(200);

    plc.load(1);

    plc.out(201);

    plc.load(2);

    plc.out(202);

    plc.load(2);

    plc.load(3);

    plc.counter(900,5);

    plc.out(203);

    plc.load(900);

    plc.func(147,25);

}