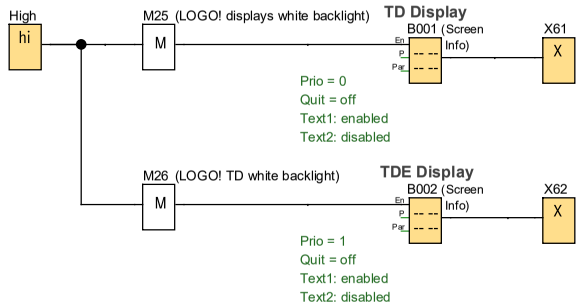
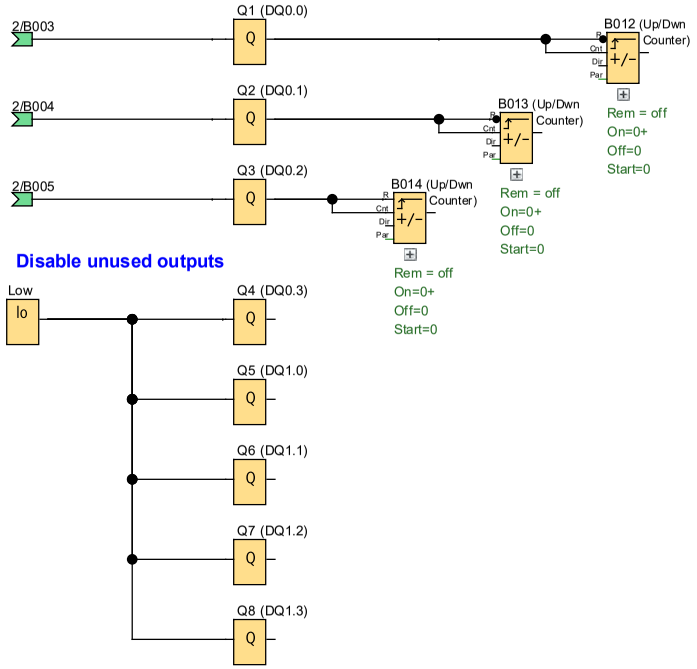
## SCREEN CONTROL

==========




## OUTPUT CONTROL

==========




**Web Info:**
**http://192.168.0.100**
**user password: TVETuser**
**admin password: TVETadmin**

**I/O Mapping:**
**S1 ---> IN1**
**S2 ---> IN2**
**S3 ---> IN3**
**S4 ---> IN4**
**S5 ---> IN5**
**S6 ---> IN6**

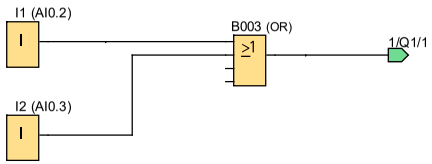
**Project Summary:**
**Demonstration of the available OR gates on a LOGO!**
**Wire the Input Actuators (S1-6) to the corresponding numbers of the LOGO! inputs (IN1-6).**
**Up/Down counters are used to display values on the TDE Display.**

**OR Gate:**
**- Inputs 1 & 2 are required to energize Output1.**
**Switch Inputs 1 & 2 to various positions and observe Output 1's counter behaviour.**
**Complete the 2-input OR Gate Truth Table and identify the control bit**
**Q: what bit is controlling the output?)**

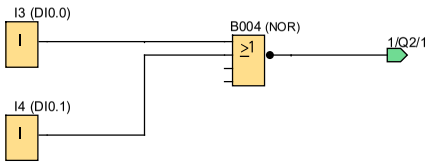
**NOR Gate:**
**- Inputs 3 & 4 are required to energize Output2.**
**Switch Inputs 3 & 4 to various positions and observe Output 2's counter behaviour.**
**Complete the NOR Gate Truth Table and identify the control bit**
**Q: what bit is controlling the output?**

**XOR Gate:**
**- Inputs 6 & 7 are required to energize Output3.**
**Switch Inputs 6 & 7 to various positions and observe Output 3's counter behaviour.**
**Complete the XOR Gate Truth Table and identify the control bit**
**Q: what bit is controlling the output?)**

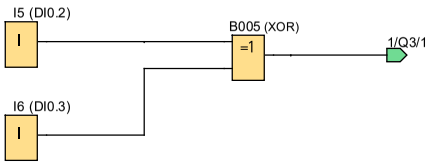
## OR GATE LOGIC

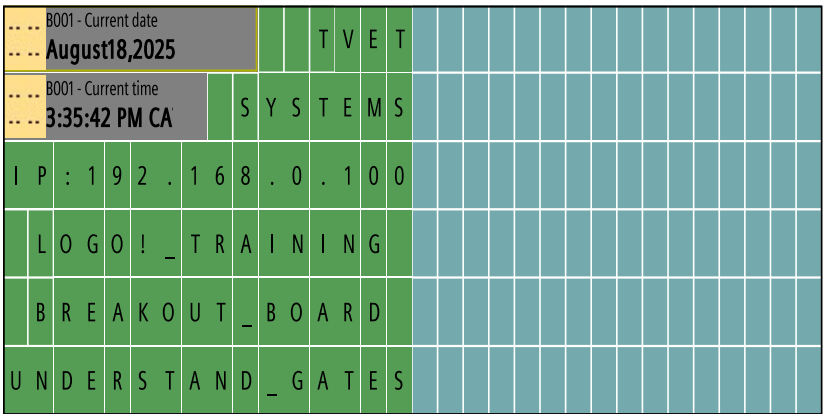
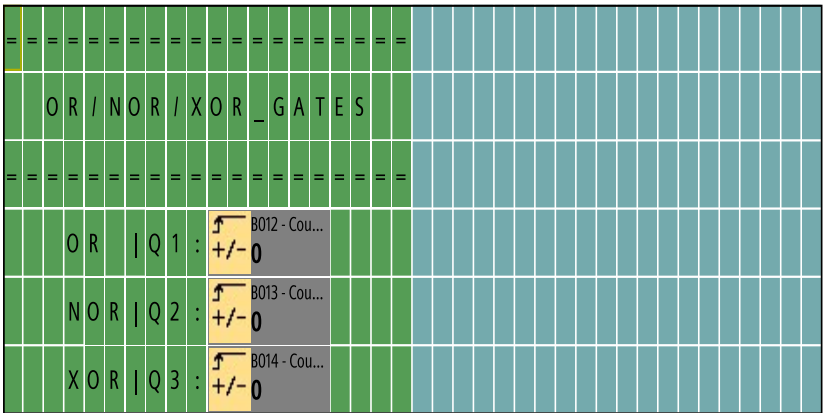



## NOR GATE LOGIC




## XOR GATE LOGIC



| Block Number (Type) | Parameter |
|---|---|
| B001(Message texts) :<br>(Screen<br>Info) | Prio = 0<br>Quit = off<br>Text1: enabled<br>Text2: disabled |
|  --> | Ticker setting<br>- CBC<br>- Line1: N<br>- Line2: N<br>- Line3: N<br>- Line4: N<br>- Line5: N<br>- Line6: N<br>Message Destination<br>- LOGO! Display |
| Line1.1 B001-Date<br>Line2.1 B001-Time | |
| B002(Message texts) :<br>(Screen<br>Info) | Prio = 1<br>Quit = off<br>Text1: enabled<br>Text2: disabled |
|  --> | Ticker setting<br>- CBC<br>- Line1: N<br>- Line2: N<br>- Line3: N<br>- Line4: N<br>- Line5: N<br>- Line6: N<br>Message Destination<br>- LOGO! TD |
| Line4.11 B012-Cnt<br>Line5.11 B013-Cnt<br>Line6.11 B014-Cnt | |
| B003(OR) :<br>(OR) | |
| B004(NOR) :<br>(NOR) | |
| B005(XOR) :<br>(XOR) | |
| B012(Up/Down counter) :<br>(Up/Dwn<br>Counter) | Rem = off<br>On=0+<br>Off=0<br>Start=0 |

| Block Number (Type) | Parameter |
|---|---|
| B013(Up/Down counter) :<br>(Up/Dwn<br>Counter) | Rem = off<br>On=0+<br>Off=0<br>Start=0 |
| B014(Up/Down counter) :<br>(Up/Dwn<br>Counter) | Rem = off<br>On=0+<br>Off=0<br>Start=0 |

| Connection | Label |
|---|---|
| I1 | AI0.2 |
| I2 | AI0.3 |
| I3 | DI0.0 |
| I4 | DI0.1 |
| I5 | DI0.2 |
| I6 | DI0.3 |
| M25 | LOGO! displays white backlight |
| M26 | LOGO! TD white backlight |
| Q1 | DQ0.0 |
| Q2 | DQ0.1 |
| Q3 | DQ0.2 |
| Q4 | DQ0.3 |
| Q5 | DQ1.0 |
| Q6 | DQ1.1 |
| Q7 | DQ1.2 |
| Q8 | DQ1.3 |
| X61 | |
| X62 | |