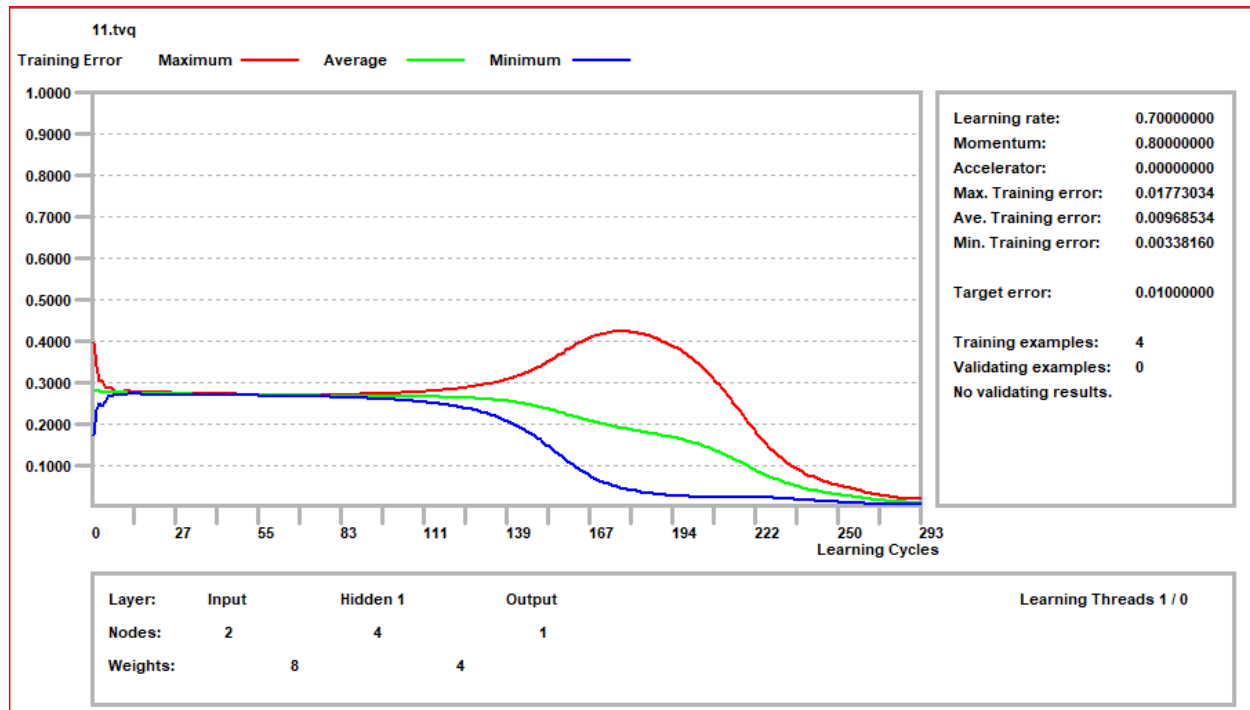
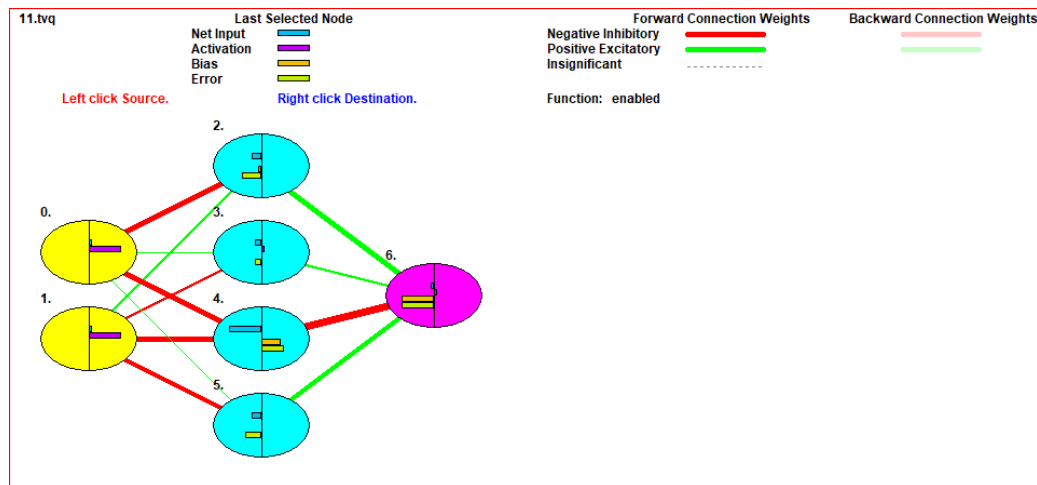


**XOR GATE:**

| Day 4 | I:0 | I:1 | O:2 |
|-------|-----|-----|-----|
| Query | 0   | 0   | 0   |
| Query | 0   | 1   | 1   |
| Query | 1   | 0   | 1   |
| Query | 1   | 1   | 0   |
| T:4   | 0   | 0   | 0   |
| T:5   | 0   | 1   | 1   |
| T:6   | 1   | 0   | 1   |
| T:7   | 1   | 1   | 0   |



## QUESTION NO.1:

| Day 4 | I:0    | I:1    | I:2    | O:3 | O:4 | O:5 | O:6     | O:7    |  |
|-------|--------|--------|--------|-----|-----|-----|---------|--------|--|
| T:0   | 1.0000 | 1.0000 | 0.0000 | 0   | 0   | 1   | Y       | 0.0000 |  |
| T:1   | 1.0000 | 0.0000 | 1.0000 | 0   | 1   | 0   | M       | 0.5000 |  |
| T:2   | 0.0000 | 1.0000 | 1.0000 | 1   | 0   | 0   | C       | 1.0000 |  |
| Q:3   | 0.9000 | 0.9000 | 0.3000 | 0   | 0   | 1   | ~ ~ ~ Y | 0.1744 |  |
| Q:4   | 0.6000 | 0.6000 | 0.4000 | 0   | 0   | 0   | ~ ~ ~ M | 0.3427 |  |
| Q:5   | 0.5000 | 0.5000 | 0.5000 | 0   | 0   | 0   | ~ ~ ~ M | 0.4888 |  |
| Q:6   | 0.0000 | 0.0000 | 0.0000 | 0   | 0   | 0   | ~ ~ ~ M | 0.5402 |  |
| Q:7   | 1.0000 | 1.0000 | 1.0000 | 0   | 0   | 0   | ~ ~ ~ M | 0.4420 |  |
| Q:8   | 0.8000 | 0.2000 | 0.7000 | 0   | 1   | 0   | ~ ~ ~ M | 0.4256 |  |

