|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| X | Y | W | B | Eta | Max Epochs | Errors |
| [0.5,2.5] | [0.2,0.9] | -2 | -2 | 1.0 | 1000 | 2.4291865713546816e-11 |
| [0.5,2.5] | [0.2,0.9] | -2 | -2 | 0.1 | 1000 | 0.01644945958207577 |
| [0.5,2.5] | [0.2,0.9] | -2 | -2 | 0.1 | 10000 | 2.594121140497871e-11 |
| [0.5,2.5] | [0.2,0.9] | -2 | -2 | 0.01 | 10000 | 0.016325286656504637 |
| [0.5,2.5] | [0.2,0.9] | -2 | -2 | 0.01 | 100000 | 2.610841456443096e-11 |
| [0.5,2.5] | [0.2,0.9] | -2 | 2 | 1.0 | 1000 | 1.1244207810459215e-11 |
| [0.5,2.5] | [0.2,0.9] | 2 | -2 | 1.0 | 1000 | 2.176675555317394e-14 |
| [0.5,2.5] | [0.2,0.9] | 4 | -4 | 1.0 | 1000 | 0.004885834591410132 |
| [0.5,2.5] | [0.2,0.9] | -4 | 4 | 1.0 | 1000 | 0.4049946601207528 |
| [0.5,2.5] | [0.2,0.9] | -1 | 1 | 1.0 | 1000 | 7.88578500814133e-12 |
| [0.5,2.5] | [0.2,0.9] | 1 | -1 | 1.0 | 1000 | 3.1498259698306356e-12 |
| [0.5,2.5] | [0.2,0.9] | 0 | 0 | 1.0 | 1000 | 5.577670818272945e-12 |
| [0.5,2.5,4.5] | [0.2,0.9,1.6] | 2 | 2 | 1.0 | 1000 | 0.18127773054168123 |
| [0.5,2.5,4.5] | [0.2,0.9,1.6] | 2 | 2 | 0.01 | 100000 | 0.1812777305420885 |
| [0.5,2.5,4.5] | [0.2,0.9,1.6] | 4 | 4 | 1.0 | 1000 | 0.18127774305093794 |
| [0.5,2.5,4.5] | [0.2,0.9,1.6] | -4 | -4 | 1.0 | 1000 | 1.7037669303682488 |
| [0.5,2.5,4.5] | [0.2,0.9,1.6] | 4 | -4 | 1.0 | 1000 | 0.18488617092381204 |

Conclusion:- For two input high the w and opposite value of w equal b can get smaller error. If we decrease the eta rate then we have to increase max epochs to get smaller error. For two or more inputs the changes of value doesn’t more affect error values. It is very difficult to get smaller error as two input.