|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Weight** | **Bias** | **Leaning Rate** | **Epoch** | **Error** |
| -4 | -2 | 0.1 | 5000 | 0.40377 |
| -4 | -2 | 0.5 | 5000 | 3.6e^-19 |
| -4 | -2 | 1 | 2500 | 3.3e^-19 |
| -4 | -2 | 1 | 4000 | 2.5e^-30 |
| -4 | -2 | 1 | 5000 | 2.5 e^-30 |
| -4 | -2 | 1.5 | 5000 | 1.15e^-30 |
| -4 | -2 | 2 | 5000 | 5.9e^-30 |
| -4 | -2 | 5 | 5000 | 1e^-31 |
|  |  |  |  |  |

**OUTPUT:**

Conclusion:

* Here after trying many random weight and bias this -4 and -2 have given me more satisfactory result than other.
* Talking about learning rate as starting from 0.1 to 5 value reduces the error beyond that error was increasing so I didn’t go beyond 5
* And in Epoch also keeping 5000 reduces error beyond that it increases error.