

## 2)a) XOR

We can see that as the no. of samples are increasing beyond 10, error is increasing may be because of overfitting of data which is of working of two output XOR also

No. of training samples - 5

Final error - 0.0162936700998

No. of training samples - 10

Final error - 0.0446751676873

No. of training samples - 50

Final error - 0.0809764268624

No. of training samples - 100

Final error - 0.0914256813216

I have attached plots of error for each iteration vs iteration for different values of N.