

# Deep Learning Assignment 1

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## Question 1:-

Multilayer perceptron on XOR

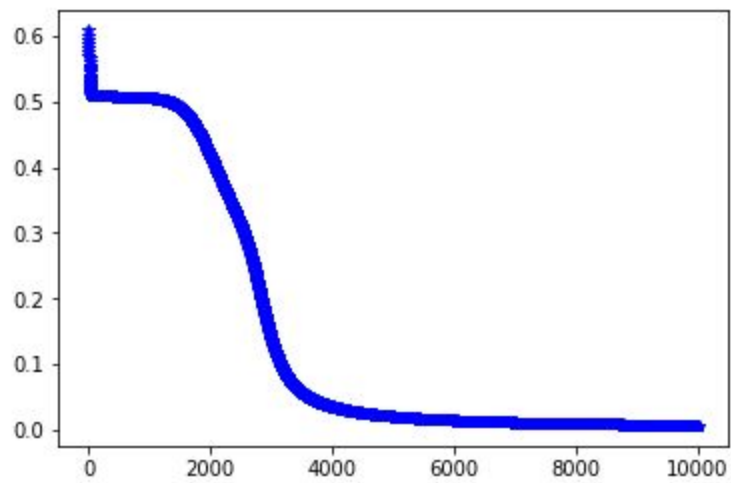
```
Input_data = [[0, 0]
               [0, 1]
               [1, 0]
               [1, 1]]
```

```
Ground_truth = [0, 1, 1, 0]
```

```
Learning rate = 0.2
```

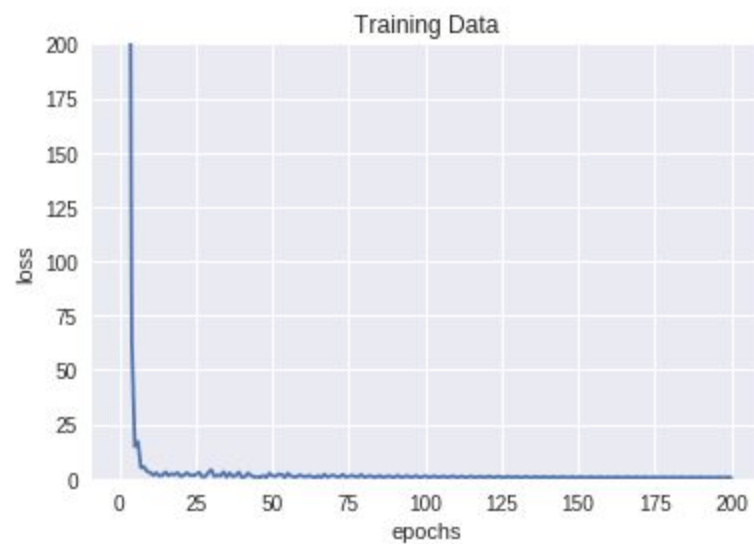
Loss vs epochs :-

[<matplotlib.lines.Line2D at 0x2809ecf2668>]



Question 2:-

Accuracy vs epochs : -





Question 3 :-

Sentiment Analysis on the rotten tomatoes data set :-

Learning rate = 0.1

Train\_data = 70%

Test\_data = 30%

Pre trained embedded matrix used glove(100d) used

LSTM layer = 1

Classification layer = 1

Testdata accuracy = 50.97777

