CS7015 : DEEP LEARNING

REPORT OF PROGRAMMING ASSIGNMENT-1

February 17, 2018

Niraj Kumar Singh

BS13B028

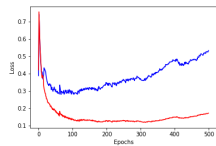Sweta Kumari

BT17D019

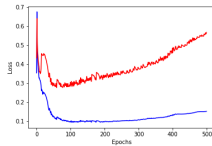Indian Institute of Technology Madras

Chennai-600036

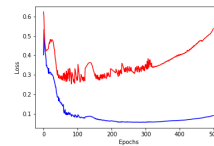**Problem:-1, 2, 3, 4**

Red—> Validation Loss Blue—> Training Loss
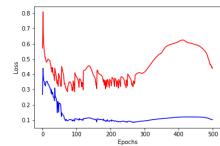
Number of Hidden Layer:-1

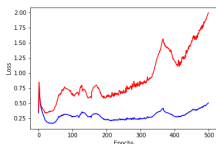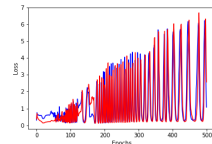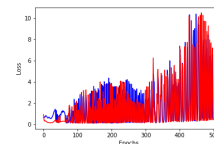**Figure 1:** 50   **Figure 2:** 100   **Figure 3:** 200   **Figure 4:** 300

Number of Hidden Layer:-2
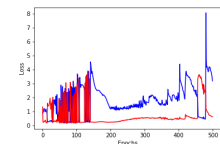

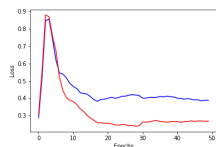**Figure 5:** 50   **Figure 6:** 100   **Figure 7:** 200   **Figure 8:** 300
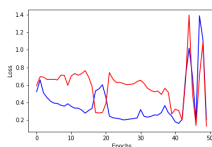
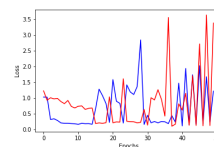**Figure 9:** Adam, BatchSize = 55000, LearningRate = 0.001, Epochs=5000.
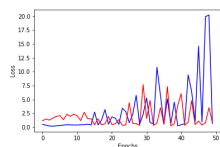
Number of Hidden Layer:-3
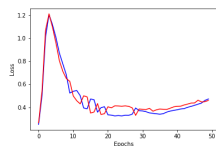

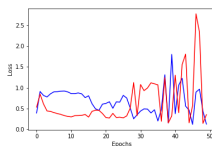**Figure 10:** 50   **Figure 11:** 100   **Figure 12:** 200   **Figure 13:** 300
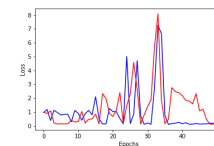
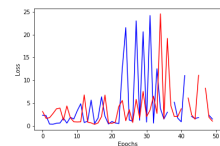**Number of Hidden Layer:-4**

Figure 14: 50   **Figure 15:** 100   **Figure 16:** 200   **Figure 17:** 300

Figure 18: Adam, BatchSize = 55000, LearningRate = 0.001, Epochs=500.