

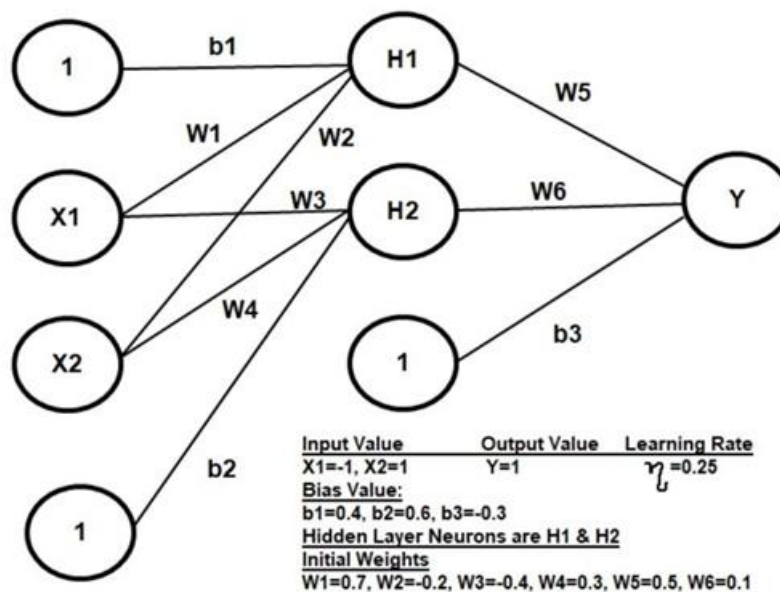
CS 6301 - Machine Learning Lab - Week 8

Date: 22.09.2023

TITLE: EXPLORING BACK PROPAGATION ALGORITHM IN NEURAL NETWORKS

SPOT QUESTION

1. Find new weights through back propagation from the network shown in the following figure. Input pattern is $(-1, 1)$ and target output is 1. Use 0.25 as learning rate and consider sigmoidal activation function.



- Verify the results of manual calculation of weights with implementation carried out in Python.
- Explore using other activation functions in code and record your observations.