Tutorial 3: Dropout and Computational Graph

1. Using the example and codes you have written for Tutorial 2, add a dropout layer to check how dropout rate affects the classification accuracy of MLPs (Multilayer Perception). What will happen if you set the dropout rate to be 1?

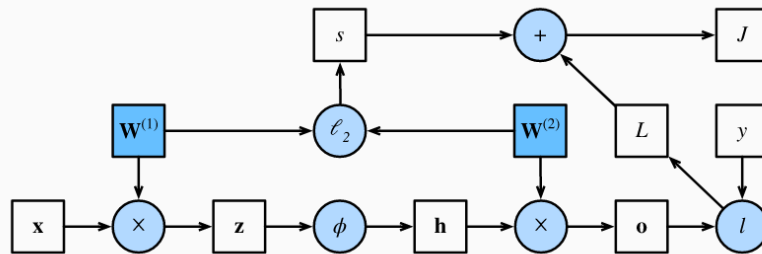2. Implement the model with Pytorch for the following computational graph in Sec. 4.7.2 of the book.

Fig. 4.7.1 Computational graph of forward propagation.

3. Draw the computational graphs of forward propagation for the codes in Sec. 4.3 of the book for the implementation of MLP and for the codes in Sec. 3.3 of the book for the implementation of linear regression.