Neural Network from Scratch

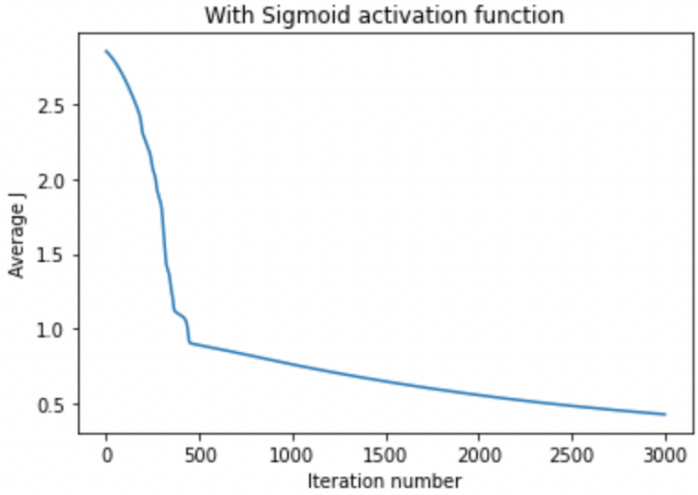
Instruction on how to run my code:
For simplicity I have kept 3 separate files that computes based on three different activation function.
You can run this project on google collab or on GPU machine.
To run this project on Google Collab and use the file named:

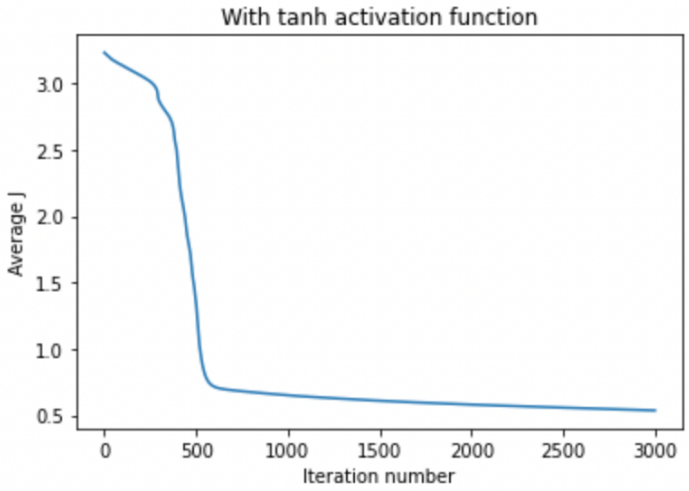
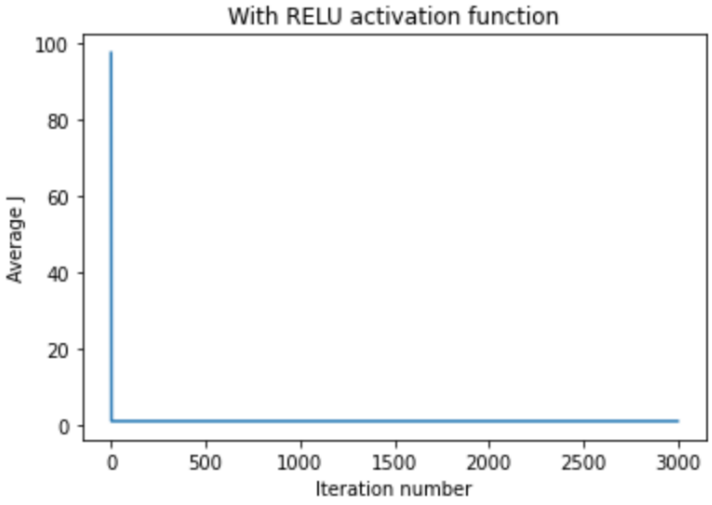
1. **"Neural_Network_ukm202_sigmoid.ipynb" to get the result that uses sigmoid activation function.**
2. **"Neural_Network_ukm202_tanh.ipynb" to get the result that uses tanh activation function.**
3. **"Neural_Network_ukm202_relu.ipynb" to get the result that uses ReLU activation function.**

To run this project on GPU machine and use the file named:

1. **"Neural_Network_ukm202_sigmoid.py" to get the result that uses sigmoid activation function.**
2. **"Neural_Network_ukm202_tanh.py" to get the result that uses tanh activation function.**
3. **"Neural_Network_ukm202_relu.py" to get the result that uses ReLU activation function.**

Result:

With Sigmoid activation function	
	`For sigmoid activation function:`
	`Prediction accuracy is 87.0653685674548%`

With tanh activation function	 For tanh activation function: Prediction accuracy is 86.36995827538247%
With ReLU activation function	 For ReLU activation function: Prediction accuracy is 10.43115438108484%