FL#7

- 1. Prepare the well-known dataset for hand-written digits (MNIST) and flowers (IRIS).
 - A. Use python library to extract images.
 - B. Separate them into test and training set.



1	A	В	C	D	E
1	Sepal Length	Sepal Width	Petal Length	Petal Width	Class
2.	5.1	3.5	1.4	0.2	Iris-setosa
200		3		0.2	with a control of the control of
3 '	4.9	3	1.4	0.2	Iris-setosa
	4.9	3.2	1.4	0.2	
3 · 4 5					Iris-setosa Iris-setosa Iris-setosa

- 2. Design a feed-forward single layer perceptron (SLP), and check the classification accuracy with random weights.
 - A. Input: IRIS dataset (4x1 vector)
 - B. Output: Classification prediction (binary value, scalar)
 - C. Functions for implementation
 - i. Feedforward operation function
 - ii. Sigmoid function
- 3. Design a feed-forward multilayer perceptron (MLP), and check the classification accuracy with random weights.
 - A. Input: MNIST Image (784x1 vector)
 - B. Output: Classification prediction (10x1 vector)

- C. Functions for implementation
 - i. Feedforward operation function
 - ii. Sigmoid function
 - iii. Softmax function