DSP Homework 01

1. Write a summary of this week's video(s) and your further thought on the content.

2. Write a mini-article on the human brain or nervous system and how marvelous it is (at signal processing, for example).

3. Write a program to compute the expression of the form

$$a \odot b$$

    where a and b are rational numbers and $\odot$ is one of $+, -, *, /$. Your program should run like the following

```
Please input your expression: 1/3 + 1/6
1/3 + 1/6 = 1/2
Please input your expression: 7/3 * 6/7
7/3 * 6/7 = 2
Please input your expression: 4/3 - 2
4/3 - 2 = -2/3
```

4. For your smart phone, laptop or desktop computer screen:

    (a) Find out its model and resolution.

    (b) Find out its color pixel pattern.

    (c) Propose a better color pixel arrangement pattern.