Exercise 5

- 1. Please develop a webpage to let users perform the four fundamental arithmetic operations: addition, subtraction, multiplication, and division.
 - (1) Please show the following message to let the user choose the operator:

"請輸入算數運算	子:1/	代表加(+)	、2 代表滅(-)	、3 代表乘(*)、	· 4 代表除(/)"
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請輸入算數運算子:1代表加(+)、2代表減(-)、3代表乘(*)、4代表除(/)

If the user input is not valid options, please show an error message "輸入有誤!選項自動設為 1。"using a popup window and set the option to 1.

輸入有誤!選項自動設為1。	
	確定
(2) Let the user input two numbers:	
這個網頁顯示	
請輸入第一個數字:	
11	
確定	取消

這個網頁顯示

If the input value is not valid number, please show an error message "輸入有誤!數值自動設定為0。" using a popup window and set the first number to 0.



Again, if the input value is not valid number, please show an error message "輸入有誤!數值自動設定為 0。" using a popup window and set the second number to 0.

確定

(3) Finally, the webpage shows the results of the arithmetic operation:

四則運算結果:

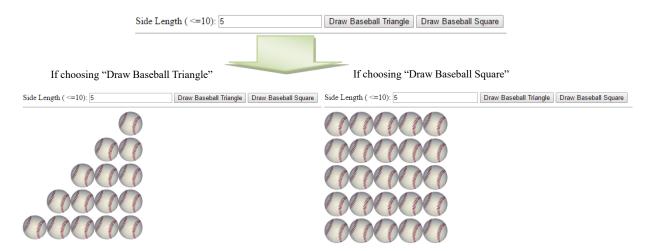
Other requirements:

Please modify the CSS in ex-4-2-ui.html to (1) add a solid **border** in *dodgerblue* for numbers and (2) let all elements display **side-by-side**.

Hint:

- Please study how to set values to HTML elements using DOM (document object model).
- "Side-by-side" is easy to realize by a CSS property.
- isFinite(): https://www.w3schools.com/jsref/jsref isfinite.asp.

2. Develop a JavaScript program that displays the images of baseball based on the user's input (type: number). The user can input the side length and choose to draw a triangle or to draw a square. The expected user interfaces are as follows: (The image file is *baseball.jpg*. Should re-size the image to 50x50px)



Besides, if the user inputs an invalid value (< 0 or > 10), this program will show a popup dialog, and set the input value as the default value 5.



Hint:

- The images are suggested to be shown in a *div* element.
- Suggest to use "blank.png" to leave spaces to build correct triangles.