

Homework 3

Don't wait till the last minute to do your assignments! The homework and project may take much longer than you expect. BeachBoard forum is the best place to discuss the homework questions.

1. The Setup

Please read <https://github.com/csulbying/web-app-dev/blob/master/01-setup/setup.md> for detail instructions to setup your development tools, create a Github repository, and how to deploy a git repository to Netlify (<https://app.netlify.com/>).

2. The Submission

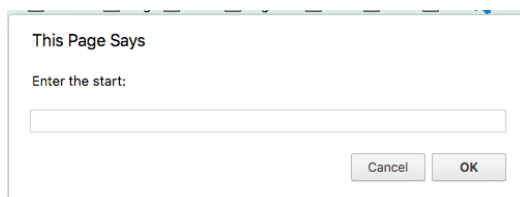
The detail web site requirements are given in the next section. Once you complete it, please create a text file (a file with ".txt" postfix) that has two links, one to your github repository and one to your netlify website. Please submit the text file to the beachboard dropbox.

Wrong file format, invalid URL, or un-working application is completed and gets 0 point. For example, below is the sample content of your hw.txt (the links are sample links, please change them to your github repository and your netlify site)

<https://github.com/your-github-name/your-repository.git>
<https://user-specific-part.netlify.com/>

3. Homework Requirements

You need to create a web page that take three user inputs, named start, end, and step. The following is the input dialog (It uses JavaScript **prompt** function) for start number.



This Page Says

Enter the start:

Cancel OK

You need to convert the input strings into integers. The start is the first number, the end is the last. The step is the increment and might be positive or negative. If any of the input is invalid, for example, if the step is 'a' or '0' (step cannot be 0), instead of a number, display an error message.

JavaScript Homework

The program output

Invalid integer input, please reload and try again.

If all three inputs are correct, then write three functions. The first function generates an array of integer based on the three parameters. The second one computes the sum of all array elements. The last one converts the value into an array of binary representation of the integers.

For example, if the input is 3, 10, 1. The output is as the following:

JavaScript Homework

The program output

The generated array is 3,4,5,6,7,8,9,10
The sum is 52
The binary of absolut element values are: 11,100,101,110,111,1000,1001,1010

If the input is 10, 4, -3, the output is:

JavaScript Homework

The program output

The generated array is 10,7,4
The sum is 21
The binary of absolut element values are: 1010,111,100
