WebClient Computing Homework 3

Kookmin University

Department of Computer Science

Logistics

- https://classroom.github.com/assignment-invitations/01232e37343c8015551379fb4e455bd4
- Due by May 19th
- What to submit
  - functions.js where you implemented all the code
  - index.html where you referenced functions.js and answer_check.js (Question 1)

Question 1 (10 points)

- In the functions.js file, print out a message “hello homework3” that should be shown in the console tab of Chrome developer tool
- In the index.html file, include the functions.js file so that if the index.html file is loaded, the functions.js to be executed

Question 2 (10 points)

- In the functions.js file, create a function stringToInt that translates an input string to an integer value

```
function stringToInt(input) {
    return ….
}
```

Question 3 (15 points)

- In functions.js file, create a function that takes 11 digit phone number as input and translates the last 4 digits with * character and have the first seven numbers as valid values.
- EX. Input: 01012347890 → Output: 0101234****

```
function maskNumber(input) {
…..
    return mask_number;
}
```

Question 4. (15 point)

- In the functions.js file, create a function to calculate average when the input is an array with integer value
- The output should be float type
- EX

```
>function getAverage(input_array) {
…..
    return avg;
}
```

Question 5 (15 points)

- In functions.js file, create a function isMultipleSeven to check if a given input is multiple of 7. If input is the multiple of 7, such as 7, 14, 21, …, return true. Otherwise return false

> function isMultipleSeven(input) {

……

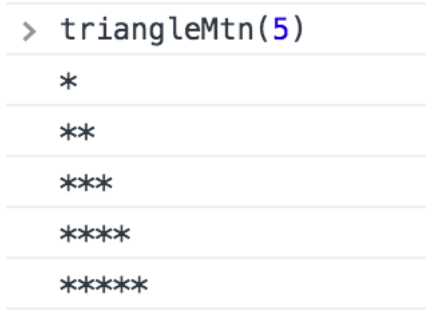
}

Question 6 (15 points)

- In functions.js file, create a function with a name “operation” that takes three arguments and perform a given arithmetic operation with the inputs
  - The first argument is arithmetic operation type – “add”, “subtract”, “multiply”, “divide”
  - The second/third argument is a number to perform operation
  - If the first input argument is an invalid operation type, print “Not Supported” and return undefined variable

Question 7 (15 points)

- In functions.js file, create a triangleMtn function that take the height of a * mountain as an input and make an output like below



Check Your Answers

- Use answer_check.js

```
Q2: String to Integer conversion: 1234                    answer_check.js:1
Q2: String to Integer conversion: 123                     answer_check.js:2
Q2: String to Integer conversion: NaN                     answer_check.js:3
Q2: String to Integer conversion: -5678                   answer_check.js:4
Q3: masking 01012345678: 0101234****                      answer_check.js:6
Q4: average of input [1,5,10,4,-4,11] is 4.5              answer_check.js:9
Q5: 5 is multiple of 7: false                             answer_check.js:11
Q5: 21 is multiple of 7: true                             answer_check.js:12
Q5: 100 is multiple of 7: false                           answer_check.js:13
Q6: a=24 and b=8. Add is: 32                              answer_check.js:15
Q6: a=24 and b=8. Subtract is: 16                         answer_check.js:16
Q6: a=24 and b=8. Multiply is: 192                        answer_check.js:17
Q6: a=24 and b=8. Divide is: 3                            answer_check.js:18
Not Supported                                               functions.js:41
Q6: a=24 and b=8. a power b is: undefined                 answer_check.js:19
Q7: triangle mountain with 10 floor                       answer_check.js:21
*                                                           functions.js:54
**                                                          functions.js:54
***                                                         functions.js:54
****                                                        functions.js:54
*****                                                       functions.js:54
******                                                      functions.js:54
*******                                                     functions.js:54
********                                                    functions.js:54
*********                                                   functions.js:54
**********                                                  functions.js:54
>
```