Assignment No. 1
EECS 368
Programming Language Paradigms
Due: 11:59 PM, Wednesday, September 7, 2022
Submit deliverables in a single zip file to Canvas
Name of the zip file: FirstnameLastname_Assignment1 (with your first and last name)
Name of the Assignment folder within the zip file: FirstnameLastname_Assignment1

Deliverables:
1. Copy of Rubric1.docx with your name and ID filled out (do not submit a PDF)
2. JavaScript source code.
3. Screen print showing the successful execution of your JavaScript code or copy
   and paste the output from a web browser console screen to a Word document and
   PDF it.

Assignment:
- Create in a single file, the JavaScript code for the following modified exercises at
  the end of Chapter 2 in Eloquent JavaScript
- Your code should print out the name of the exercise before each exercise (e.g.,
  "Looping a triangle").
- Provide comments that explain what each line of code is doing. See rubric below.
- Exercise 2.1 - Looping a triangle
  o Write a loop that makes 10 calls to console.log to output the following
    triangle:
    ```
    x
    xx
    xxx
    xxxx
    xxxxx
    xxxxxx
    xxxxxxx
    xxxxxxxx
    xxxxxxxxx
    xxxxxxxxxx
    ```
- Exercise 2.2 – FizzBuzz
  o Write a program that uses console.log to print all the numbers from 1 to
    100, with three exceptions:
    ▪ For numbers divisible by 4, print "Divisible by 4" instead of the
      number.
    ▪ For numbers divisible by 7, but not 4, print "Divisible by 7, but not
      4" instead.
    ▪ For numbers divisible by both 4 and 7, print "Divisible by both 4
      and 7".
- Exercise 2.3 – n-by-n Grid
  o Write a program that creates a string that represents an n-by-n grid, using
    newline characters to separate lines.

- At each position of the grid there is either a space or a "*" character.
- The first position should be a space.
- Define a binding name "size" so that it works for any size, outputting a square grid of the given width and height.
- Show the output for size = 8 and size = 14.
- Between the output for each size, print out the size (e.g. "size = 6").
- For example, if size = 8, the grid would look like this:

```
 * * * *
* * * *
 * * * *
* * * *
 * * * *
* * * *
 * * * *
* * * *
```

Rubric for Program Comments		
Exceeds Expectations (90-100%)	**Meets Expectations (80-89%)**	**Unsatisfactory (0-79%)**
Software is adequately commented with prologue comments, comments summarizing major blocks of code, and comments on every line.	Prologue comments are present but missing some items or some major blocks of code are not commented or there are inadequate comments on each line.	Prologue comments are missing all together or there are no comments on major blocks of code or there are very few comments on each line.

Remember:
- Your Programming Assignments are individual-effort.
- You can brainstorm with other students and help them work through problems in their programs, but everyone should have their own unique assignment programs.