1) Write a loop that makes seven calls to console log to output the following triangle:

# ## ### #### ##### ######

Print Every line in random color every time (choose from colors red, green, yellow, blue). There should not be two lines of the same color next to each other.

- 2) Write a program that uses console.log to print all the numbers from 1 to 100, with two exceptions. For numbers divisible by 3, print "Fizz" instead of the number, and for numbers divisible by 5 (and not 3), print "Buzz". For numbers that are divisible by both 3 and 5 print "FizzBuzz".
- 3) Create two versions of a function called range which takes two numbers x and y and returns an array filled with all numbers from x (inclusive) to y (exclusive)
  - a) Do not use any ES6 methods
  - b) Use a suitable ES6 method
- 4) Create two versions of a function called sum which takes a list of numbers and returns a sum of them.
  - a) Do not use any ES6 methods
  - b) Use a suitable ES6 method
- 5) Given a list of the following major Houses of Westeros and their respective mottos:

```
var houses = [
    {name: "Targaryen", motto: "Fire and Blood"},
    {name: "Stark", motto: "Winter is Coming"},
    {name: "Bolton", motto: "Our Blades Are Sharp"},
    {name: "Greyjoy", motto: "We Do Not Sow"},
    {name: "Tully", motto: "Family, Duty, Honor"},
    {name: "Arryn", motto: "As High as Honor"},
    {name: "Lannister", motto: "Hear Me Roar!"},
    {name: "Tyrell", motto: "Growing Strong"},
    {name: "Baratheon", motto: "Ours is the Fury"},
    {name: "Martell", motto: "Unbowed, Unbent, Unbroken"}];
```

Write two versions of a function that, when passed the name of a House, returns its motto.

- a) Do not use any ES6 methods
- b) Use a suitable ES6 method

## Example:

motto("Tyrell") // returns "Growing strong"

- 6) Create a function which takes an array and returns an array with all duplicates removed.
- 7) Create a function wordSearch(w) that searches to see whether a word w is present in the given text variable. Please note it has to be a full word and case insensitive.
- 8) Write a function which takes a number x and returns a function, which takes another number y and returns the sum of numbers x and y.
- 9) Write a function sevenAte9 that removes each 9 that is in between 7s.

```
sevenAte9('79712312') // returns '7712312' sevenAte9('79797') // returns '777'
```

10) Create a simple function wrapper that will log every call to the wrapped function.

## Example:

```
var spied = spy(myFunction);
spied(1);
var report = spied.report(); // returns { totalCalls: 1 }
```

- 11) Given an array with nested arrays of numbers (ex.: [10, 6, [4, 8], 3, [6, 5, [9]]]) create a function that would sum all numbers from provided array.
- 12) Create two versions of a calculator module:
  - a) Do not use any ES6 functionality
  - b) Use a ES6 class

Calculator should have four methods: add, subtract, multiply and divide. All of calculator methods should be chainable.

## Example:

```
var calc = new Calculator(0);
amount = calc.add(5).multiply(2).add(20).divide(3); //should return 10
```

13) Write the definition of the function "say" in such way that calling this: say("Hello,")("it's me"); //Would return "Hello, it's me";