

ITP JS: HW

Week 4

Read the following articles:

- <https://www.javascripttutorial.net/javascript-bind/>
- https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function/call
- https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function/apply
- https://www.w3schools.com/js/js_function_closures.asp

Based on your readings, answer the following questions:

1. What is the core difference between **call** and **apply**? Give a simple example of the difference.
2. Write a program that acts as an e-commerce Product information system. Your program should have a function constructor to create new Products. The function will take parameters productName, productPrice. Your product should also have a method to apply coupons. So when a coupon of 10% is applied, the price of the product should be reduced by 10%. No need of DOM manipulation, hardcore the information in code.
NOTE: All the variables and methods of the products should be inaccessible from the outside users (similar to private methods/variables if you compare with Java).
3. Write a program that appends an array with another but without creating a new copy of the array.
(You CAN'T use any kind of loop. You also CAN'T use concat, as concat creates a new array)

HINT:

- Some answers of the questions are totally descriptive and simple
- If you have gone through the readings, you should be able to answer all the questions without any hassle.
- While reading, some parts in the ending sections might seem confusing, just skip those.

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