



*Front-end Advanced*

# Training Assignment

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**RECORD OF CHANGES**

No	Effective Date	Change Description	Reason	Reviewer	Approver
1	30/May/2019	Create a new assignment	Create new	DieuNT1	VinhNV
2	07/Jun/2019	Update Fsoft Template	Update	DieuNT1	VinhNV

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## Unit 1: Types and Coercion

### Objectives:

- Understand Advanced JavaScript concepts such as: Types, Number, Coercion

### Problem 01

Evaluate the following code, what is the output?

```
1. function empty(o) {  
2.     o = null;  
3. }  
4.  
5. var x = [];  
6. empty(x);  
7. console.log(x); // ??
```

### Problem 02

Evaluate the following code, what is the output?

```
1. function swap(a, b) {  
2.     var tmp = a;  
3.     a = b;  
4.     b = tmp;  
5. }  
6.  
7. var x = 1;  
8. var y = 2;  
9.  
10. swap(x, y);  
11. console.log(x); // ??
```

### Problem 03

Write a function reverse that takes a string s from snake\_case to PascalCase

Example:

reverse('user\_name') == 'UserName' // true

### Problem 04

Write a function mul that takes 2 numbers return the product of those 2 as string.

The first number can be very large.

The second number is from 1 to 99.

Example:

mul(12345678910111213, 89) == '1098765422999897957'