

Integrated Mobile Applications Development

Lab 3 Recap

Part 1 JavaScript

- Write a JavaScript program that creates an object of type *House*, that has the following attributes, using the Object Literal Notation, new keyword and Object Constructor methods:
 - numBedrooms
 - numWindows
 - isBungalow (Boolean)
 - Address

Print out the Address attribute of each object.

- Write a JavaScript program to store a person's
 - First Name
 - Last Name
 - Date of Birth
 - Sex
 - Whether they're married or not

as an object.

Create a few instances of the object using the Object Constructor method.

Add a new attribute to the object which is a function that returns the age a person will be in a particular year.

Print out the person's first and last names, and how old he or she will be in the year.

If the year is before the person was born, print out how many years until the person will be born.

- Write a JavaScript program to store the following Student information in an object:
 - First Name
 - Last Name
 - The classes they are taking

The Student object should also have a method for:

- Adding a new class
 - Removing an existing class
 - Printing all a student's classes in alphabetical order.
- In your new job as a JavaScript programmer your boss shows you the following sample 2-dimensional array:

```
var countyDetailsArray =  
[["Galway", "Galway city", true],  
 ["Leitrim", "Carrick-on-Shannon", true],  
 ["Mayo", "Castlebar", true],  
 ["Roscommon", "Roscommon town", false],  
 ["Sligo", "Sligo town", true]];
```

The outer array is an array of counties. The inner arrays contain the following data about individual counties:

- The County Name
- The County Town
- Whether or not the County has a coastline.

Your boss says this data structure is too difficult to maintain and wants you to transform this into an array of objects, each of which stores the same information as above.

However, you must write a JavaScript program to do this automatically as the real-life 2-dimensional array contains the same details of counties from many countries, making manual updating time consuming and error prone.