

W3D2 – Homework Assignment 10 – Working with ES6 Classes and ES Modules

Implement code solutions for the following and be sure to use "use strict":

1. Create a new webapp folder and in it create a js sub-folder and a model sub-sub-folder inside the js sub-folder. Inside the model sub-sub-folder, create a 'person.js' Javascript source code file and in it, Define a JavaScript ES6 class named, Person, with the following specification:
 - a. Person class should have the properties:
 - i. name
 - ii. dateOfBirth
 - b. Person class should have the methods:
 - i. getName (should return the value of the person's name property)
 - ii. setName (should take as input parameter, a String value which it sets as the person's name)
 - iii. getDateOfBirth
 - iv. setDateOfBirth
 - c. Include a toString() method which returns the Person data in the format,
{ Name: Ana Smith, DateOfBirth: 1998-12-15 }

Note: dateOfBirth will be set to a Date() object NOT a string.

Inside the js sub-folder of your webapp folder, create another JS source file named, main.js. In the main.js file, write code to import your Person class. Then declare and initialize an array of Persons, with the following data:

1. Name: Ana Smith, Date of Birth: 1998-12-15
2. Name: Bob Jone, Date of Birth: 1945-11-16
3. Name: Carlos Slim Helu, Date of Birth: 1976-09-24

Iterate through the array and Print-out to the console, the information about the persons using the toString() method you defined.

2. Given that an Employee IS-A person, applying JavaScript inheritance and the ES6 class syntax, define a sub-class named, Employee, in an employee.js source file, inside your model sub-sub-folder, which inherits from Person class and adds the following properties:
 - a. Salary
 - b. hireDate

and the following method:

- c. doJob (should take as input parameter, a string representing the jobTitle of the employee and it prints-out to the console, the employee's information in the following format:

"[Employee's name] is a [jobTitle] who earns \$[salary]"

e.g. Anna is a Programmer who earns \$249,995.50

In the main.js file, add code to Create an employee named, Jim Hanson, set their salary to \$245.990.00 and call the doJob() method, passing it the jobtitle, Software Engineer.

Note the console output should be: Jim Hanson is a Software Engineer who earns \$245,990.00

Please submit your code as a single zip file attachment to Sakai and/or push it to your github repository.

//-- Enjoy! --//