

HOMework– PRODUCT

OBJECTIVES

- ✓ Manipulate ARRAY and OBJECTS
- ✓ Use built in MODULES FS
- ✓ Create a module with some functions

PART A

Let's manage a **list of product!!**

Complete the file : products.js

Each product has 3 properties:

Name (string)

Category (string)

Price (integer)

Q1 - Code the function `addProduct` **to add a product to the list of product**

Q2 - Code the function `getMostExpensiveProduct` **to get the name of the most expensive product**

The code to TEST your function is ALREADY done :

```
addProduct("piano", "music", 400);  
addProduct("iphone", "phone", 500);  
addProduct("french fries", "food", 20);  
  
console.log("Most expensive product is  :" + getMostExpensiveProduct());
```

Q5 – Run the file *product.js*

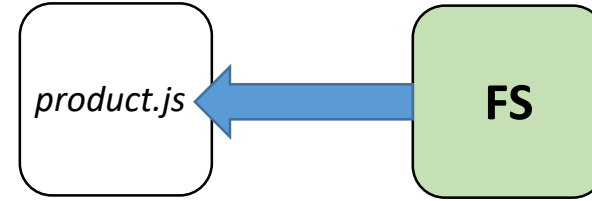
=> You should see the following content on the console:

```
product added: piano  
product added: iphone  
product added: french fries  
  
Most expensive product is  : iphone
```

PART B

Now let's **SAVE** and **LOAD** the product a JSON file !

Import the built-in module FS to read and write files



Q1 - Code the function `save()` to save the products in a JSON file named : `products.JSON`

Q2 - Code the function `load()` to load the products from a JSON file named : `products.JSON`

Q3 – Add the `save()` at the end of the the test code from PART A

Q4 – Run the file `product.js`

=> **Check the JSON file is created with the right content**

PART C

Now let's put the test code **in another file** : *test.js*

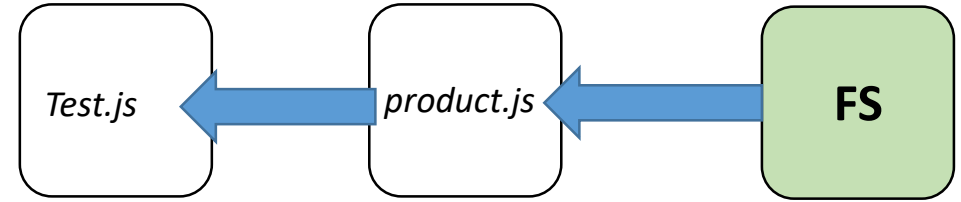
Create a new file: *Test.js*

On test1.js :

- Move the code to test function to this file
- Require the *product.js* to access to the functions from test.js

Run the file *Test.js*

=> You should see the SAME as PART A and B



On fruitLib.js :

- Export the following functions to the module:
 - addProduct
 - getMostExpensiveProduct