

BTI225 - Assignment 2: JavaScript Objects (12+8+1+4 = 25 marks)

Due date

Friday, Feb 19, 2021 - 11:59pm

Grade value: 6% of your final course grade

Objective

Practise JavaScript String, Array and customized objects.

Task 1: (12 marks)

- a. Create an array called `courses`, each course in the array should have the following information:

code	name	hours	url
APC100	Applied professional communication	3	http://www.senecacollege.ca
IPC144	Introduction to C programming	null	http://www.senecacollege.ca/ipc
ULI101	Linux and the Internet	4	http://www.senecacollege.ca/lin
IOS110	Windows Operating System	4	http://www.senecacollege.ca/ios
EAC150	College English	3	null

- b. Using appropriate array method, Remove the last course object from the given array **`courses`** and store the removed object to a variable.
- c. Output a message to console to show the course which was removed from the array.
- d. Create 4 course objects which should have the same properties as what the objects (in the course array) have. Store the 4 course objects in the variables **`BTP200`**, **`BTD210`**, **`BTI225`** and **`BTC240`**, and the object properties should have appropriate values.
- e. Using appropriate array method, Add these course objects in the array **`courses`**.
- f. Use for loop to loop through the course array in order to add the hours of the courses and log the total hours in the console.

Task 2: (8 marks)

- a. Create an Object prototype called Student which should have the following:

Properties:

name: a string
dob: built-in Date object
sid: a string
program: a string
gpa: a number

Methods:

toString(): returns a string with student's information in the format as:

Student info for 'student-name' born on 'student-dob', id is 'student-id', in program 'student-program', with a current GPA of 'student-gpa'.

- b. Create 4 student objects based on the given prototype **student**. Give appropriate property values for all student objects.
- c. Create an array named **students** and add all the student objects into the array.
- d. Use the **forEach** method to iterate the array students and output the information of the student objects to the console.

Important note

Save your file as **a2.js**. Add the following comment declaration with your info at the top of your code: [\[1 mark\]](#)

```
/*  
 * Assignment 2  
 * I declare that this assignment is my own work in accordance with Seneca Academic Policy.  
 * No part of this assignment has been copied manually or electronically from any other source  
 * (including web sites) or distributed to other students.  
 * Name:____Student ID:_____Date: _____  
 */
```

3-5 min video in which you demo/test your code and explain it as you do so.[\[4 marks\]](#)

Submission

Submit both your video and a2.js to Blackboard under assignment section

Late Submission

10% penalty each day for up to 5 days. After that, no submission will be accepted.