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DESCRIPTION

SUTDENT'S NAME:	**Ankit Kumar 056/266932**
PROGRAM:	**Web design**
DATE:	**25 September 2021**
TEACHER'S NAME:	
COURSE:	**Data Processing Technologies (TTD)**
TYPE OF EXAM:	**Final exam**
DURATION:	**3 hours**
AUTHORIZED MATERIAL:	**None**

OTHER INSTRUCTIONS FROM THE TEACHER

The exam has **5** pages including the cover page. In accordance with the syllabus, the evaluation is worth **25** % of the final grade.

Penalties imposed on a student accused of an attempt at plagiarism could include, but are not limited to, a grade of 0% for examination or for the entire course. The student could also be either put on probation, suspended and / or expelled from the program.

OTHER INFORMATION

Prepared by :   **Jean-Guy Turgeon**

Revised by :   **M.-J. Villeneuve**

Approved by : _____

Good luck !

Question 1   /3

Briefly explain what is an API.

An API is a set of defined rules that explain how
computers or applications communicate with one
another.

Question 2   /3

Briefly explain what is a third party API.

Third party APIs are APIs provided by third parties to allow you to
access their functionality via JavaScript and use it on your site.

Question 3   /3

Give an example of a brower's API.

YouTube API

Question 4   /3

Briefly explain what is a public API.

It is a publicly available application programming interface that provides developers with
programmatic access to a proprietary software application or web service.

Question 5

What is an endpoint?
(Circle the letter corresponding to your answer)

                                                                                  /3

a)   A compouter system linked to a public database.

b)   The final line of an API script closing an external file containing data

c)   The URL of a file containing data.

d)   An AJAX request.

e)   None of the above.

Question 6

/3

(True or false, circle your answer)
In order to retrieve data from an external file using JavaScript, it isn't alway mandatory to make an AJAX request.

       TRUE   **FALSE**

Question 7

/3

Name the two languages most commonly used
to make data available using an API.

HTML

CSS

Question 8

/3

What language is used in the folowwing script example :

```
<container>
        <name>John</name>
        <age>42</age>
</container>
```

Question 9

/3

What language is used in the folowwing script example :

```
{
name: "John",
age: "42"
}
```

Question 10   /5

Supposing data are gathered in an external file named «mydata.json», write the jQuery instructions needed to display the name in a DIV containing #result as ID (not including the AJAX request).

Data :

```
{
name: "John",
age: "42"
}
```

Question 11   /10

Supposing data are gathered in an external file named «mydata.json», write the jQuery instructions needed to display the age in a DIV containing #result as ID (including the AJAX request.
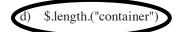
Data :

```
{
users: [
nom: "John",
age: "42"
]
}
```

Question 12

/3

(Circle your answer)
In order to evaluate the number of items contained in an array named «container», how could we proceed?

     a)   container[i]

     b)   find(container).[i]

     c)   container.length

     d) $.length.("container")

     e)   None of the above