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DESCRIPTION

SUTDENT'S NAME:	Sourav Verma 056-298973
PROGRAM:	**Web design**
DATE:	25 sep
TEACHER'S NAME:	Suthakhar
COURSE:	**Data Processing Technologies (TTD)**
TYPE OF EXAM:	**Final exam**
DURATION:	**3 hours**
AUTHORIZED MATERIAL:	**None**

OTHER INSTRUCTIONS FROM THE TEACHER

The exam has **XX5** pages including the cover page. In accordance with the syllabus, the evaluation is worth **XX25** % 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.

it consists in a set of rules and specifications that applications have to follow in order to communicate with each other. They govern how the data should be shared all over the internet.

Question 2   /3

Briefly explain what is a third party API.

Third-party APIs are not built into the browser, and it is generally necessary to retrieve their code and data from an external source on the web. For example, the Twitter APIs allow you to do different things such as displaying your latest tweets on a web document

Question 3   /3

Give an example of a brower's API.

Dom (document object model)

Question 4

/3

Briefly explain what is a public API.

Public APIs are also known as Open APIs. It consists of a large amount of data that shared by developers as they gave access different services to the users

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.

JSON & XML

/3

Question 8

What language is used in the folowwing script example :

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

XML Language

/3

Question 9

What language is used in the folowwing script example :

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

JSON.

Question 10

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 :< !DOCTYPE html>

```
      <html>
      <head>
      <script   src=https://ajax.googleapis.com/ajax/libs/jquery/3.5.1 /jquery.min.js></script>
      <script>
            $(document).ready(function(){
                $("button").click(function(){
            $.getJSON("mydata.json", function(result){
         $("#result").append(result.firstName + " ") ;
}) ;
}) ;
}) ;
   </script>
</head>
<body>
   <button>Get JSON data</button>
   <div id="result"></div>
</body>
</html>
      {
      name: "John",
      age: "42"
```

Question 11

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"
      ]
<div id="result"></div>
<script>
$(document).ready(function(){
Data :
```

```
{
Users : [
Nom : "John",
Age : "42"
]
}
$("#result").html(Data.users.age) ;
}) ;
</script>
```

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