



University of Oum El Bouaghi

Department of Mathematics and Computer Science

AWP Module (3rd year Bachelor ISSE) Typical Solution

➤ Course comprehension responses: (11 pts)

1- JavaScript is a language that allows:

- Create static web pages
- Create dynamic web pages **X**
- Create hybrid web pages

2- In which part of an html document can we insert JavaScript code?

- <body> only
- <head> only
- <head> and <body> **X**

3- Call the greet method shown below (javascript):

```
var obj = {
  x: 10,
  y: 20,
  fx: {
    greet: function() { alert("Hello World!"); }
  }
};
```

- A) obj.greet() B) obj.fx.greet() (Correct answer) C) obj.fx.greet D) NONE

4 - Identify the error(s) in the following code :

```
.card {
  display: block;
  vertical-align: middle;X
  float: center;X
  margin: 20px auto;
}
```

5- How to create a function in JavaScript?

- A) function f() **X** B) function = f() D) function : f()

5 -The interface of a web application must be:

- Presentable and predictable
Intuitive and predictable (Correct answer)
Accessible

6- Which function allows calling a function repeatedly after a certain time?

- setTimeout()
- setInterval() (Correct answer)
- setRepeter()

7- A thin client can:

- Execute treatments
- Respond to requests
- Perform requests **X**

8- How can we access the property top-price of an object obj?

- A) obj.top-price B) obj["top-price"] (Correct answer) C) obj.accessProperty("top-price") D) Both A & B

9- Choose the Output of the following code:

```
let person = { name: "Lydia" };
const members = [person];
person = null;
console.log(members);
```

- null - [null] - [{}]

- [{ name: "Lydia" }] **X**

10- Which method converts an object to a JSON string?

- JSON.parse()
- JSON.stringify() (Correct answer)
- Object.toString()
- convertToString()

11- What is the HTML code for creating links?

- linkText
- Click here **X**
- <link http="URL" />
- Clickhere

Exercise 1: 4pts

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Age Category Checker</title>
```

```

</head>
<body>

<h2>Enter a person's age</h2>
<input type="text" id="ageInput" placeholder="Enter age here">
<button onclick="checkAge()">Submit</button>

<p id="output"></p>
<p id="dateEntry"></p>
<p id="primeCheck"></p>
<p id="perfectCheck"></p>

<script>
function checkAge() {
  const ageInput = document.getElementById("ageInput").value.trim();
  const output = document.getElementById("output");
  const dateEntry = document.getElementById("dateEntry");
  const primeCheck = document.getElementById("primeCheck");
  const perfectCheck = document.getElementById("perfectCheck");

  // Reset previous outputs
  output.textContent = "";
  dateEntry.textContent = "";
  primeCheck.textContent = "";
  perfectCheck.textContent = "";

  // Validation
  const age = parseInt(ageInput);
  if (ageInput === "" || isNaN(age) || age > 70 || age < 0) {
    output.textContent = "✖Error: Please enter a valid number between 0 and 70.";
    return;
  }
  // 1. Category determination
  if (age >= 10 && age <= 11) {
    output.textContent = "◇Category: Junior";
  } else if (age >= 12 && age <= 13) {
    output.textContent = "◇Category: Cadet";
  } else if (age >= 18 && age <= 70) {
    output.textContent = "◇Category: Adult";
  } else {
    output.textContent = "❗ Age not in a defined category.";
  }
  // 2. Date of entry
  const now = new Date();
  dateEntry.textContent = "🕒 Date of entry: " + now.toLocaleString();
  // 3. Prime number check
  if (isPrime(age)) {
    primeCheck.textContent = "🕒 The age is a prime number.";
  } else {
    primeCheck.textContent = "🕒 The age is not a prime number.";
  }
  // 4. Perfect number check
  if (isPerfect(age)) {
    perfectCheck.textContent = "🕒 Happy Birthday! The age is a perfect number!";
  }
  // 5. Create address and person object
  const address = {
    street: "123 Maple St",
    city: "Exampleville",
    postalCode: "12345"
  };
  const person = {
    age: age,
    entryDate: now,
    address: address
  };
  console.log("🕒 Person object:", person); // Can be inspected in the browser console
}

// Helper functions
function isPrime(n) {
  if (n < 2) return false;
  for (let i = 2; i <= Math.sqrt(n); i++) {
    if (n % i === 0) return false;
  }
  return true;
}

```

```

function isPerfect(n) {
    let sum = 0;
    for (let i = 1; i < n; i++) {
        if (n % i === 0) sum += i;
    }
    return sum === n;
}
</script>
</body>
</html>

```

Note: Other correct solutions are accepted.

Exercise 2: (5 pts) HTML code display is as follows:

Event Tracker

[Track Event](#)

Click to track an event!

Event Number	Message	Timestamp
Event #2	Event #2 tracked!	10:05:53 AM
Event #3	Event #3 tracked!	10:05:53 AM
Event #4	Event #4 tracked!	10:05:53 AM
Event #5	Event #5 tracked!	10:05:53 AM
Event #6	Event #6 tracked!	10:05:54 AM
Event #7	Event #7 tracked!	10:05:54 AM
Event #8	Event #8 tracked!	10:05:54 AM
Event #9	Event #9 tracked!	10:05:55 AM
Event #10	Event #10 tracked!	10:05:55 AM
Event #11	Event #11 tracked!	10:05:55 AM

Activer Windows
Accédez aux paramètres pour activer Windows.