# **TP JAVASCRIPT 1**

## Exercice 1:

```
const str1 = 'Bonjour';
const str2 = 'Hello';

console.log(str1.concat(' ', str2));

console.log(str2.concat(', ', str1));

Bonjour Hello
Hello, Bonjour
>
```

# Exercice 2:

```
var number = 42;
var string = "Fox";
var boolean = true;

console.log(typeof number);
console.log(typeof string);
console.log(typeof boolean);
console.log(typeof undeclaredVariable);

number
string
boolean
undefined
```

## Exercice 3:

```
var longueur = 10;
var largeur = 5;

var aire = (longueur*largeur);
var perimetre = (longueur+largeur) * 2;

console.log("Aire du rectangle : " + aire);
console.log("Perimètre du rectangle : " + perimetre);
```

```
Aire du rectangle : 50
Perimètre du rectangle : 30
```

## Exercice 4:

```
function factorialize(num) {
   if (num < 0)
      return -1;
   else if (num == 0)
      return 1;
   else {
      return (num * factorialize( num: num - 1));
   }
}
console.log(factorialize( num: 15));</pre>
```

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## Exercice 5:

```
Number.prototype.pad = function(n) {
    for (var r = this.toString(); r.length < n; r = 0 + r);
    return r;

};

function updateClock() {
    var now = new Date();
    var milli = now.getMilliseconds(),
        sec = now.getSeconds(),
        min = now.getMinutes(),
        hou = now.getHoutes();
    var tags = ["h", "m", "s", "mi"],
        corr = [hou.pad( n: 2), min.pad( n: 2), sec.pad( n: 2), milli];
    for (var i = 0; i < tags.length; i++)
        document.getElementById(tags[i]).firstChild.nodeValue = corr[i];

function initClock() {
    updateClock();
    window.setInterval( handler: "updateClock()", timeout: 1);
}</pre>
```

```
<!DOCTYPE html>
<html lang="fr">
<head>
    <meta charset="UTF-8">
    <title>JS 1 - Exo 5</title>
    <link href="styles.css" rel="stylesheet">
</head>
<body onload="initClock()">
<div id="timedate">
   <a id="h">12</a> :
   <a id="m">00</a>:
   <a id="s">00</a>:
 ♀ <a id="mi">000</a>
</div>
<script src="exo5.js" type="text/javascript"></script>
</body>
</html>
```

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#### Exercice 6:

```
let square = document.getElementById( elementId: 'squareID');

window.addEventListener( type: 'load', listener: () =>{
    square.style.position = 'absolute';
    square.style.right = 0;
});

var myVar = setInterval(moove, timeout: 2);

function moove() {
    if (square.style.right == (1920-250)+'px'){
        return;
    }
    square.style.right = parseInt(square.style.right) + 1 + 'px';
}
```

#### Exercice 7:

```
<!DOCTYPE html>
<html lang="fr">
<head>
   <meta charset="UTF-8">
   <title>JS 1 - Exo 7</title>
   <link href="styles.css" rel="stylesheet">
</head>
<body>
<div id="name"><h1>Chronometer</h1></div>
    <div id="clock">00.00</div>
   <br>
   <button id="start">Start / Stop</button>
   <button id="reset">Reset</button>
   <button id="record">Save Time</button>
   <br>
   <div><h3>Past Times :</h3></div>
        <div id="temps"></div>
<script src="exo7.js" type="text/javascript"></script>
</body>
</html>
```

```
var clock=document.getElementById( elementld: "clock");
document.getElementById( elementld: "start").addEventListener( type: "click", listener: function(){
        startTimer();
        stopTimer();
document.getElementById( elementld: "reset").addEventListener( type: "click", listener: function(){
    resetTimer();
document.getElementById( elementId: "record").addEventListener( type: "click", listener: function(){
    recordTime();
function refreshClock(temps){
```

#### Exercice 8 & 9:

Pour la 9, j'ai fait un exemple avec la 8 directement. Cela revient à la même chose pour les autres.

```
function calcule() {
   var startTime = performance.now()
   var num = document.getElementById( elementId: "num").value;
   var element = document.getElementById( elementId: 'res');
   if (typeof(element) != 'undefined' && element != null)
       element.remove();
   var divR = document.getElementById( elementId: 'result');
   var newR = document.createElement( tagName: "p");
   newR.id = 'res';
   divR.append(newR);
   newR.innerHTML += res;
   var endTime = performαnce.now()
   var element = document.getElementById( elementId: 'ti');
   if (typeof(element) != 'undefined' && element != null)
       element.remove();
   var ti = endTime - startTime;
   var divR = document.getElementById( elementId: 'time');
   var newR = document.createElement( tagName: "p");
   newR.id = 'ti';
   divR.append(newR);
   newR.innerHTML += ti*1000 + " millisecondes";
function factorialize(num) {
       return (num * factorialize( num: num - 1));
```

```
<!DOCTYPE html>
<html lang="fr">
<head>
   <meta charset="UTF-8">
   <title>JS 1 - Exo 8</title>
   <link href="styles.css" rel="stylesheet">
</head>
<body>
<input type="number" required="" id="num">
<br>
<button onclick="calcule()">Calculer</button>
<div id="result">
Résultat :
</div>
<div id="time">
   Temps d'exécution : 
</div>
<script src="exo8.js" type="text/javascript"></script>
</body>
</html>
```

## Exercice 10:

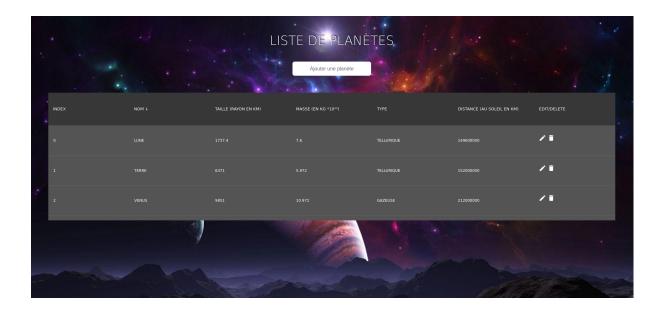
```
<!DOCTYPE html>
 <meta charset="UTF-8">
    rel="stylesheet">
 <button onclick="add()" style="margin-bottom: 3%;">Ajouter une planète</button>
 <div class="tbl-header">
   <thead>
       Index
       Masse (en kg *10<sup>23</sup>)
       Distance (au soleil en km)
       Edit/Delete
     </thead>
 </div>
   </div>
```

```
for (var x = 0; x < planet.length; x++) {
    var tbodyP = document.getElementById( elementid: 'tbody');
    van newIr = document.createElement( lagName: 'tr');</pre>
  function compareFirstColumnUp(a, b) {.
function compareSecondColumnDown(a, b) {...}
 function compareSecondColumnUp(a, b) {...}
function compareThirdColumnDown(a, b) {...}
function compareThirdColumnUp(a, b) {...}
function compareFourthColumnDown(a, b) {...}
function compareFourthColumnUp(a, b) {...}
function compareFifthColumnDown(a, b) {...}
function compareFifthColumnUp(a, b) {...}
           planet.sort(compareFirstColumnUp);
           removeAll();
           affichage();
           document.getElementById( elementld: 'masse').innerHTML = "Masse (en kg *10<sup>23</sup>)";
           document.getElementById( elementId: 'type').innerHTML = "Type";
           document.getElementById( elementd: 'distance').innerHTML = "Distance (au soleil en km)";
           planet.sort(compareFirstColumnDown);
           affichage();
function triM(why) {...}
```

function triD(why) {...}

```
function del(buttonDel) {
   var parentI = buttonDel.parentElement;
   var parentTd = parentI.parentElement;
   var index = parseInt(parentTd.children[0].innerHTML);
   planet.splice(index, deleteCount: 1);
   var nom = document.getElementById( elementId: 'nom');
   document.getElementById( elementld: 'taille').innerHTML = "Taille (rayon en km)";
   document.getElementById( elementld: 'masse').innerHTML = "Masse (en kg *10<sup>23</sup>)";
   document.getElementById( elementId: 'type').innerHTML = "Type";
   document.getElementById( elementId: 'distance').innerHTML = "Distance (au soleil en km)";
   planet.sort(compareFirstColumnDown);
   removeAll();
   affichage();
function edit(buttonEdit) {
   var parentI = buttonEdit.parentElement;
   var parentTd = parentI.parentElement;
   var index = parseInt(parentTd.children[0].innerHTML);
   let txt1 = prompt( message: "Nom :", _default: "");
   planet[index][0] = txt1;
   let txt2 = prompt( message: "Taille (rayon en km) :", _default: "");
   planet[index][1] = txt2;
   let txt3 = prompt( message: "Masse (en kg) :", _default: "");
   planet[index][2] = txt3;
   let txt4 = prompt( message: "Type :", _default: "");
   planet[index][3] = txt4;
   let txt5 = prompt( message: "Distance (au soleil en km) :", _default: "");
   planet[index][4] = txt5;
   var nom = document.getElementById( elementId: 'nom');
   document.getElementById( elementld: 'taille').innerHTML = "Taille (rayon en km)";
   document.getElementById( elementld: 'masse').innerHTML = "Masse (en kg *10<sup>23</sup>)";
   document.getElementById( elementId: 'type').innerHTML = "Type";
   document.getElementById( elementId: 'distance').innerHTML = "Distance (au soleil en km)";
   planet.sort(compareFirstColumnDown);
   removeAll();
   affichage();
```

```
function add() {
   var addP = [];
   let txt1 = prompt( message: "Nom :", _default: "");
   addP.push(txt1);
   let txt2 = prompt( message: "Taille (rayon en km) :", _default: "");
   addP.push(txt2);
   let txt3 = prompt( message: "Masse (en kg) :", _default: "");
   addP.push(txt3);
   let txt4 = prompt( message: "Type :", _default: "");
   addP.push(txt4);
   let txt5 = prompt( message: "Distance (au soleil en km) :", _default: "");
   addP.push(txt5);
   planet.push(addP);
   var nom = document.getElementById( elementId: 'nom');
   document.getElementById( elementld: 'taille').innerHTML = "Taille (rayon en km)";
   document.getElementById( elementId: 'masse').innerHTML = "Masse (en kg *10<sup>23</sup>)";
   document.getElementById( elementId: 'type').innerHTML = "Type";
   document.getElementById( elementId: 'distance').innerHTML = "Distance (au soleil en km)";
   planet.sort(compareFirstColumnDown);
   removeAll();
   affichage();
```



Le fichier contenant les exercices étant mis à votre disposition, je vous laisse essayer de vous même car sinon cela ferait trop de screenshots.

## Exercice 11:

```
let slideIndex = 1;
showSlides(slideIndex);

function plusSlides(n) {
    showSlides( n: slideIndex += n);
}

function currentSlide(n) {
    showSlides( n: slideIndex = n);
}

function showSlides(n) {
    let i;
    let slides = document.getElementsByClassName( classNames: "mySlides");
    let dots = document.getElementsByClassName( classNames: "dot");
    if (n > slides.length) {slideIndex = 1}
    if (n < 1) {slideIndex = slides.length}
    for (i = 0; i < slides.length; i++) {
        slides[i].style.display = "none";
    }

    for (i = 0; i < dots.length; i++) {
        dots[i].className = dots[i].className.replace( searchValue: " active", replaceValue: "");
    }
    slides[slideIndex-1].style.display = "block";
    dots[slideIndex-1].className += " active";
}</pre>
```

