

Actividad 1 (object)

1.

// Crea un programa que recorra un arreglo de números y calcule la suma total de todos sus elementos.

```
let numeros = [23,45.5,346,6,7,1,3,9,99,779,70,4,1,3,5,23,46,25,7,8];

let suma = 0;

for (let n = 0; n < numeros.length; n++) {

    suma = suma + numeros[n];

}

console.log(suma);
```

The screenshot shows the Visual Studio Code interface. The left sidebar (EXPLORER) lists files: problema1.js, problema2.js, problema3.js, problema4.js, problema5.js, and hola.js. The central area (EDITOR) contains the code for problema1.js, which is identical to the one above. The bottom right (TERMINAL) shows the output of running the code:

```
PS C:\Users\Computo\Desktop\hola> node problema1.js
1510.5
PS C:\Users\Computo\Desktop\hola>
```

2.

// Crea un programa que recorra un arreglo de numeros y separe los pares e impares en dos nuevos arreglos.

```
let numeros = [1243,44,5,2,32245,436,23,6,2,53,763,46,3,356,32];
```

```
let pares = [];
```

```
let impares = [];
```

```
for (let z = 0 ; z < numeros.length; z++)
```

```
{
```

```
    if (numeros[z] % 2 === 0)
```

```
{
```

```
        pares.push(numeros[z]);
```

```
}
```

```
else
```

```
{
```

```
        impares.push(numeros[z]);
```

```
}
```

```
}
```

```
console.log("Los pares:" + pares);
```

```
console.log("Los impares:" + impares);
```

The screenshot shows a dark-themed instance of Visual Studio Code. At the top, there are five tabs labeled 'JS problema1.js', 'JS problema2.js X', 'JS problema3.js', 'JS problema4.js', and 'JS problema5.js'. The 'JS problema2.js' tab is currently active. Below the tabs, the code editor displays a script named 'problema2.js' with the following content:

```

1 // Crea un programa que recorra un arreglo de numeros y separe los pares e impares en dos nuevos arreglos
2 let numeros = [1243,44,5,2,32245,436,23,6,2,53,763,46.3,356.32];
3 let pares = [];
4 let impares = [];
5
6 for (let z = 0 ; z < numeros.length; z++)
7 {
8     if (numeros[z] % 2 === 0)
9     {
10         pares.push(numeros[z]);
11     }
12     else
13     {
14         impares.push(numeros[z]);
15     }
16 }
17
18 console.log("Los pares:" + pares);
19 console.log("Los impares:" + impares);
20

```

Below the code editor, a navigation bar includes 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', 'TERMINAL' (which is underlined), and 'PORTS'. The terminal window at the bottom shows command-line history:

```

PS C:\Users\Computo\Desktop\hola> node hola.js
hola mundo
PS C:\Users\Computo\Desktop\hola> node problema1.js
hola mundo
PS C:\Users\Computo\Desktop\hola> node problema1.js
1510.5
PS C:\Users\Computo\Desktop\hola> node problema2.js
Los pares:44,2,436,6,2
Los impares:1243,5,32245,23,53,763,46.3,356.32
PS C:\Users\Computo\Desktop\hola>

```

3.

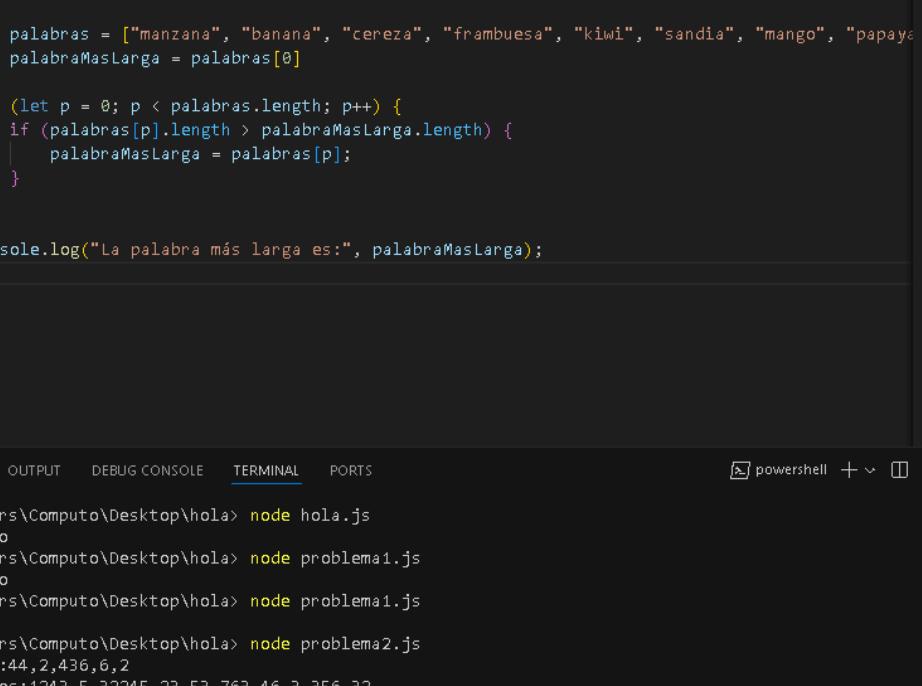
// Crea un arreglo con varias palabras y muestra en la consola la palabra mas larga.

```
let palabras = ["manzana", "banana", "cereza", "framboesa", "kiwi", "sandia", "mango",  
"papaya", "electroencefalografista", "cereza", "Helado"];
```

```
let palabraMasLarga = palabras[0]
```

```
for (let p = 0; p < palabras.length; p++) {  
  
    if (palabras[p].length > palabraMasLarga.length) {  
  
        palabraMasLarga = palabras[p];  
  
    }  
  
}
```

```
console.log("La palabra más larga es:", palabraMasLarga);
```



The screenshot shows a VS Code interface with multiple tabs at the top: problema1.js, problema2.js, problema3.js (active), problema4.js, and problema5.js. The code in problema3.js is as follows:

```
JS problema1.js | JS problema2.js | JS problema3.js x | JS problema4.js | JS problema5.js | ...  
JS problema3.js > ...  
1 // Crea un arreglo con varias palabras y muestra en la consola la palabra mas larga.  
2  
3 let palabras = ["manzana", "banana", "cereza", "framboesa", "kiwi", "sandia", "mango", "papaya"]  
4 let palabraMasLarga = palabras[0]  
5  
6 for (let p = 0; p < palabras.length; p++) {  
7     if (palabras[p].length > palabraMasLarga.length) {  
8         palabraMasLarga = palabras[p];  
9     }  
10 }  
11  
12 console.log("La palabra más larga es:", palabraMasLarga);  
13
```

The terminal below shows the execution of several files:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS powershell + ×   
PS C:\Users\Computo\Desktop\hola> node hola.js  
hola mundo  
PS C:\Users\Computo\Desktop\hola> node problema1.js  
hola mundo  
PS C:\Users\Computo\Desktop\hola> node problema1.js  
1510.5  
PS C:\Users\Computo\Desktop\hola> node problema2.js  
Los pares:4,2,436,6,2  
Los impares:1243,5,32245,23,53,763,46,3,356,32  
PS C:\Users\Computo\Desktop\hola> node problema3.js  
La palabra más larga es: electroencefalogramafista  
PS C:\Users\Computo\Desktop\hola> █
```

4.

// Crea un programa que muestre el arreglo invertido, sin usar el metodo reverse().

```
let arreglo = [1,2,3,4,5,6,7,8,9,10,20,30,43];
```

```
let arregloinvertido = [];
```

```
for (let a = arreglo.length - 1; a >= 0; a--) {  
    arregloinvertido.push(arreglo[a]);  
}
```

```
console.log("EL arreglo invertido es: " + arregloinvertido);
```

JS problema1.js JS problema2.js JS problema3.js JS problema4.js ● JS problema5.js

JS problema4.js > ...

```
1 // Crea un programa que muestre el arreglo invertido, sin usar el metodo reverse().
2 let arreglo = [1,2,3,4,5,6,7,8,9,10,20,30,43];
3 let arregloinvertido = [];
4
5 for (let a = arreglo.length - 1; a >= 0; a--) {
6     arregloinvertido.push(arreglo[a]);
7 }
8
9 console.log("EL arreglo invertido es: " + arregloinvertido);
10
11
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\Computo\Desktop\hola> node hola.js
hola mundo
PS C:\Users\Computo\Desktop\hola> node problema1.js
hola mundo
PS C:\Users\Computo\Desktop\hola> node problema1.js
1510.5
PS C:\Users\Computo\Desktop\hola> node problema2.js
Los pares:44,2,436,6,2
Los impares:1243,5,32245,23,53,763,46,3,356,32
PS C:\Users\Computo\Desktop\hola> node problema3.js
La palabra más larga es: electroencefalografista
PS C:\Users\Computo\Desktop\hola> node problema4.js
EL arreglo invertido es: 43,30,20,10,9,8,7,6,5,4,3,2,1
PS C:\Users\Computo\Desktop\hola>

5.

// Crea un programa que reciba un arreglo de números y un número límite.

// El programa debe mostrar solo los números que sean mayores al límite.

```
let numeros = [10, 25, 3, 50, 18, 70, 2, 99, 45];
```

```
let limite = 30;
```

```
for (let i = 0; i < numeros.length; i++) {
```

```
if (numeros[i] > limite) {
```

```
console.log(numeros[i]);
```

```
}
```

```
}
```

The screenshot shows a code editor interface with five tabs at the top, each containing a different JavaScript file. The tabs are labeled: JS problema1.js, JS problema2.js, JS problema3.js, JS problema4.js, and JS problema5.js. The JS problema5.js tab is currently active. Below the tabs, the code for problema5.js is displayed:

```
// Crea un programa que reciba un arreglo de números y un número límite.  
// El programa debe mostrar solo los números que sean mayores al límite.  
  
let numeros = [10, 25, 3, 50, 18, 70, 2, 99, 45];  
let limite = 30;  
  
for (let i = 0; i < numeros.length; i++) {  
if (numeros[i] > limite) {  
    console.log(numeros[i]);  
}  
}  
}
```

Below the code editor, there is a terminal window showing the output of running various JavaScript files. The terminal tabs are PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL, and PORTS. The TERMINAL tab is active, displaying the following command-line session:

```
PS C:\Users\Computo\Desktop\hola> node problema1.js  
hola mundo  
PS C:\Users\Computo\Desktop\hola> node problema1.js  
1518.5  
PS C:\Users\Computo\Desktop\hola> node problema2.js  
Los pares:44,2,436,6,2  
Los impares:1243,5,32245,23,53,763,46,3,356.32  
PS C:\Users\Computo\Desktop\hola> node problema3.js  
La palabra más larga es: electroencefalografista  
PS C:\Users\Computo\Desktop\hola> node problema4.js  
EL arreglo invertido es: 43,30,20,10,9,8,7,6,5,4,3,2,1  
PS C:\Users\Computo\Desktop\hola> node problema5.js  
50  
70  
99  
45  
PS C:\Users\Computo\Desktop\hola>
```