**TASK 2**

1. **Difference between copy by value and copy by reference.**

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| **Copy by value** | **Copy by reference** |
| Separate memory is created for the variables. | A variable points to the address of another variable. |
| Changes in one variable does not affect the other. | If the value is changed in either of the variable, it affects the other. |
| By default primitive data types are copied by value | Composite data types ( Array, Object ) are copied by reference |

1. **How to copy by value a composite data type.**

* Using the spread (...) operator

let a = [1,2,3,4] ;

let b = [ … a ] ;

* Using the Object.assign() method

let a = [ 1,2,3 ] ;

let b = Object.assign ( [], a ) ;

* Using the JSON.stringify() and JSON.parse() methods

let a = [ 1,2,3 ] ;

let b = JSON.parse( JSON.stringify ( a ) ) ;