

TASK2

2. Difference in copy by value and copy by reference.

Copy by value.

Results in assignment of the value when assignment to a variable is made, if another variable is assigned with the first variable, changes in any of the two doesn't affect the other.

In primitive data type this operation on assignment is carried out.

Copy by reference.

Assignment in this case causes variable point to the memory address of the value, any further assignment of the variable to any other variable results in another pointer to same memory address. Thus changes to any of the variable results change shown in all variables pointing to the memory address.

3. Copy by value for composite data type.

There are three ways to do so:

1. Spread(...)
2. Object.assign
3. JSON stringify followed by JSON parse

```
const person = {
    firstName: 'Ashwini',
    lastName: 'Prashad'
};
//use of Spread (...)
let p1 = { ...person};
//use of Object.assign() method
let p2 = Object.assign({},person)
//use of JSON stringify and then parse
let p3 = JSON.parse(JSON.stringify(person))
```