

```
week_04 > .\objkiterals.js > _
1  const putri = {
2    "name": "Putri",
3    "birthday": "2005-02-13",
4    "phone": "081234567890",
5    "address": {
6      "primary": "Bandung",
7      "secondary": "Sukabumi"
8    }
9  }
10
11
12  const bayu = Object.assign({}, putri);
13  bayu.name = "Bayu";
14  bayu.address.primary = "Aceh";
15
16  console.log(putri.name);
17  console.log(putri.address.primary);
18
19

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

# PS C:\Users\Aldoo Hype 7\OneDrive\Documents\js_learning> ls

Directory: C:\Users\Aldoo Hype 7\OneDrive\Documents\js_learning

Mode                LastWriteTime         Length Name
----                -
da---1             9/22/2025 10:30 AM             week_01
da---1             9/22/2025  9:29 PM             week_02
da---1            10/6/2025  8:29 AM             week_03
da---1            10/14/2025  9:13 AM             week_04
da---1            10/13/2025  8:13 PM             week_05

# PS C:\Users\Aldoo Hype 7\OneDrive\Documents\js_learning> cd week_04
# PS C:\Users\Aldoo Hype 7\OneDrive\Documents\js_learning\week_04> node objkiterals.js
Putri
Aceh
# PS C:\Users\Aldoo Hype 7\OneDrive\Documents\js_learning\week_04> |
```

The reason why Putri's primary address changed to Aceh is because the code uses **Object.assign()**, which performs a **shallow copy**. This means that first-level properties such as *name*, *birthday*, and *phone* are copied by value, but properties that are objects within objects, like *address*, are copied by reference to the same object in memory. As a result, **bayu.address** and **putri.address** point to the same object. Therefore, when **bayu.address.primary** is changed to "Aceh", that change also affects **putri.address.primary**, since both actually share the same address object reference.

```
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1  const putri = {
2    "name": "Putri",
3    "birthday": "2005-02-13",
4    "phone": "081234567890",
5    "address": {
6      "primary": "Bandung",
7      "secondary": "Sukabumi"
8    }
9  }
10
11
12  const bayu = structuredClone(putri);
13  bayu.name = "Bayu";
14  bayu.address.primary = "Aceh";
15
16  console.log(putri.name);
17  console.log(putri.address.primary);
18
19

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

# PS C:\Users\Aldoo Hype 7\OneDrive\Documents\js_learning\week_04> node objkiterals.js
Putri
Bandung
# PS C:\Users\Aldoo Hype 7\OneDrive\Documents\js_learning\week_04> |
```

If we want to fully copy the data so that Bayu and Putri each have their own separate *address* objects (not connected to each other), we need to create a **deep copy**. This can be done using **structuredClone(putri)** or **JSON.parse(JSON.stringify(putri))**. That way, when **bayu.address.primary** is changed to "Aceh", the value of **putri.address.primary** will remain "Bandung" (as shown in the picture above).