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2311104021

TP13

```
[Running] node "d:\kevinjonson\KPL_KevinJonson_2311104021\13_Design_Pattern\TP\main.js"
Subject mengirim data: Perubahan #1
Observer A menerima update: Perubahan #1
Observer B menerima update: Perubahan #1
Subject mengirim data: Perubahan #2
Observer A menerima update: Perubahan #2
```

```
13_Design_Pattern > TP > JS main.js > ...
1    import { subject } from './subject.js';
2    import { ConcreteObserver } from './observer.js';
3
4    const mySubject = new subject();
5
6    const observer1 = new ConcreteObserver("Observer A");
7    const observer2 = new ConcreteObserver("Observer B");
8
9    mySubject.subscribe(observer1);
10   mySubject.subscribe(observer2);
11
12   console.log("Subject mengirim data: Perubahan #1");
13   mySubject.notify("Perubahan #1");
14
15   mySubject.unsubscribe(observer2);
16
17   console.log("Subject mengirim data: Perubahan #2");
18   mySubject.notify("Perubahan #2");
```

```js
export class ConcreteObserver {
  constructor(name) {
    this.name = name;
  }

  update(data) {
    console.log(`${this.name} menerima update: ${data}`);
  }
}
```

```js
export class subject {
  constructor() {
    this.observers = [];
  }

  subscribe(observer) {
    this.observers.push(observer);
  }

  unsubscribe(observer) {
    this.observers = this.observers.filter(obs => obs !== observer);
  }

  notify(data) {
    this.observers.forEach(observer => observer.update(data));
  }
}
```