1)

const user = { name: 'John', age: 25, city: 'New York' };

const { name, age, city } = user;

console.log(name); // 'John'

console.log(age); // 25

console.log(city); // 'New York'

2)

const fruits = ['apple', 'banana', 'orange'];

const [, secondFruit, thirdFruit] = fruits;

console.log(secondFruit); // 'banana'

console.log(thirdFruit); // 'orange'

3)

const person = { name: 'Alice', age: 30 };

// Деструктуризация в параметрах функции

function printPersonDetails({ name, age }) {

console.log(`Name: ${name}, Age: ${age}`);

}

printPersonDetails(person); // Вывод: Name: Alice, Age: 30

4)

const car = { brand: 'Toyota', model: 'Camry' };

const { brand, model, year = '2022' } = car;

console.log(brand); // 'Toyota'

console.log(model); // 'Camry'

console.log(year); // 2022 (значение по умолчанию)

5)

const students = [

{ name: 'Alex', grade: 'A' },

{ name: 'Emma', grade: 'B' },

{ name: 'Chris', grade: 'C' },

];

const [{ name: student1 }, , { name: student3 }] = students;

console.log(student1); // 'Alex'

console.log(student3); // 'Chris'

6)

const person = { firstName: 'Max', lastName: 'Johnson' };

const firstName = 'first Name: Nina';

const lastName = 'last Name: Ivanov';

const { firstName: nameVariable, lastName: lastNameVariable, age = 25 } = person;

console.log(nameVariable); // 'Max'

console.log(lastNameVariable); // 'Johnson'

console.log(age); // 25 (значение по умолчанию)