



# Object De-structuring

## Object De-structuring

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// ***** Basic Object De-structuring *****  
const person = {  
  name: "Aman",  
  age: 25,  
  city: "Delhi"  
};  
  
// Destructuring  
const { name, age, city } = person;  
  
console.log(name); // Aman  
console.log(age); // 25  
console.log(city); // Delhi  
  
// ***** Using a Different Variable Name *****  
const user = {  
  username: "coder123",  
  email: "coder@example.com"  
};  
  
// Renaming variables  
const { username: uname, email: mail } = user;  
  
console.log(uname); // coder123  
console.log(mail); // coder@example.com
```

```

// ***** Setting Default Values *****
const employee = {
  empName: "Rohit"
};

// `position` does not exist in employee, so it will take the default value
const { empName, position = "Developer" } = employee;

console.log(empName); // Rohit
console.log(position); // Developer

// ***** Nested Object Destructuring *****
const student = {
  name: "Priya",
  details: {
    age: 22,
    country: "India"
  }
};

// Nested destructuring
const { name, details: { age, country } } = student;

console.log(name); // Priya
console.log(age); // 22
console.log(country); // India

// ***** Rest Operator with Destructuring *****
const product = {
  id: 101,
  name: "Laptop",
  price: 50000,

```

```
    brand: "HP"
  };

// Extracting 'id' and 'name', rest properties go into 'others'
const { id, name, ...others } = product;

console.log(id);    // 101
console.log(name);  // Laptop
console.log(others); // { price: 50000, brand: "HP" }

// ***** Combining Destructuring with Spread Operator *****
const car = { brand: "Toyota", model: "Corolla", year: 2022 };

// Remove 'year' and create a new object
const { year, ...newCar } = car;

console.log(newCar); // { brand: "Toyota", model: "Corolla" }
```