

JavaScript Syntax Explained in Hindi (PDF Guide)

1. Variables (var, let, const)

- var: Purana tariqa variable banane ka (scope global ya function level hota hai)
- let: Naya tariqa, block scope me kaam karta hai (zyaada safe)
- const: Constant variable, value change nahi hoti

2. Data Types

- String: "Hello", 'World'
- Number: 10, 20.5
- Boolean: true, false
- Array: [1, 2, 3]
- Object: { name: "Ali", age: 25 }
- null: Khaali value
- undefined: Jiski koi value set nahi hui

3. Operators

- Arithmetic: + - * / %
- Comparison: ==, ===, !=, !==, >, <, >=, <=
- Logical: && (AND), || (OR), ! (NOT)
- Assignment: =, +=, -=, *=

4. Conditionals

- if(condition) { ... }
- else { ... }
- else if(condition) { ... }
- switch(expression) { case value: break; }

5. Loops

- `for (let i = 0; i < 10; i++) { ... }`
- `while (condition) { ... }`
- `do { ... } while(condition)`

6. Functions

- `function greet() { ... }`
- `greet()` – Function call
- `function sum(a, b) { return a + b; }`

7. Arrow Function

- `const add = (a, b) => a + b;`

8. DOM Manipulation

- `document.querySelector()`, `getElementById()`
- `element.innerHTML = "..."`
- `element.style.color = "red"`
- `document.createElement("div")`

9. Events

- `onclick`, `onmouseover`, `onchange`
- `element.addEventListener("click", function)`

10. Arrays

- `push()`, `pop()`, `shift()`, `unshift()`
- `forEach()`, `map()`, `filter()`, `find()`

11. Objects

- let user = { name: "Ali", age: 30 }
- Access: user.name or user["name"]
- Add: user.city = "Delhi"

12. JSON

- JSON.stringify(obj) – Object to JSON
- JSON.parse(json) – JSON to Object

13. Fetch API (for beginners)

- fetch(URL)
 .then(res => res.json())
 .then(data => console.log(data))
- async function getData() {
 let res = await fetch(url);
 let data = await res.json();
}

14. Try...Catch

- Error handle karne ke liye

```
try {  
  // code  
} catch(error) {  
  console.log(error)  
}
```

15. setTimeout and setInterval

- `setTimeout(() => { ... }, 1000)`
- `setInterval(() => { ... }, 1000)`

16. Local Storage

- `localStorage.setItem("key", "value")`
- `localStorage.getItem("key")`
- `localStorage.removeItem("key")`

17. Template Literals

- `let name = "Ali"`
- `console.log(`Hello, ${name}`)`

18. ES6 Modules

- `export function greet() {}`
- `import { greet } from './file.js'`

19. Classes

```
class Car {  
  constructor(name) {  
    this.name = name;  
  }  
  drive() {  
    console.log(this.name + " is driving")  
  }  
}
```

20. Important Tips

- Always use let or const (not var)
- Use === instead of ==
- Practice with small projects

Yeh syntax aur unka matlab har beginner ke liye kaafi hai JavaScript ko samajhne ke liye.