

# JavaScript Day 2 Assignment – Full Solution

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// 1. Welcome Program
let userName = prompt("Enter your name:");
alert("Hi " + userName + ", Welcome to JavaScript Training.");
console.log("Hi " + userName + ", Welcome to JavaScript Training.");

// 2. Console Methods
console.log(500);
console.warn(500);
console.error(500);
console.clear();

// 3. Data Types
let str = "JavaScript";
let num = 100;
let bool = true;
let undef;
let nul = null;

console.log(str, typeof str);
console.log(num, typeof num);
console.log(bool, typeof bool);
console.log(undef, typeof undef);
console.log(nul, typeof nul);

// 4. Arithmetic Operators
let a = 20;
let b = 5;

console.log(a + b);
console.log(a - b);
console.log(a * b);
console.log(a / b);
console.log(a % b);
console.log(a ** b);

// 5. Increment & Decrement
let x = 10;
console.log(++x);
console.log(x++);
console.log(--x);
console.log(x--);

// 6. Assignment Operators
let n = 10;
n += 5;
n -= 2;
n *= 2;
n /= 4;
n %= 3;
console.log(n);

// 7. Array Access
let courses = ["HTML", "CSS", "JavaScript", "React"];
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console.log(courses[0]);
console.log(courses[1]);
console.log(courses[courses.length - 1]);
console.log(courses.length);

// 8. Modify Array
courses.push("NodeJS");
courses.pop();
console.log(courses);

// 9. Object
let student = {
  name: "Giri",
  age: 22,
  course: "JavaScript",
  city: "Chengalpattu"
};
console.log(student.name, student.age, student.course, student.city);

// 10. Nested Object
let company = {
  name: "ABC Tech",
  trainer: {
    name: "Ravi",
    subject: "JavaScript"
  }
};
console.log(company.name);
console.log(company.trainer.name);
console.log(company.trainer.subject);
```