console.log(10 + 10);     //20

console.log(10 + "10"); //1010

console.log(10 + +"10");  //20

console.log(10+"10"+10);  //101010

console.log(10+ +"10" + 10);//30

console.log(10 - "2");//8

console.log(10 - "2" - "8");//0

console.log(10+"2" - "2");//100

console.log(10>9>8);//false 10 > 9: This comparison evaluates to true because 10 is greater than 9.

//true > 8: Now, the expression is true > 8. In JavaScript, when comparing a boolean with a number, the boolean true is coerced to the number 1.

console.log(10 \* "10");//100

console.log(100 / "100");//100

console.log(100/"0");//Infinity

console.log(100 + +"100" - "100" \* "100");//-9800

console.log(1 == "1");//true

console.log(1 === "1");//flase

console.log(1 == "one");//false

console.log(1 === "one");//false

console.log(1+true);//2

console.log(1 - true);//0

console.log(1 + true - false);//2

console.log("1" + true);//1true

console.log(+"1" + true);//2

console.log(undefined == undefined);//true

console.log(undefined === undefined);//true

console.log(null == null);//true

console.log(null === null);//true

console.log(undefined == null);//true

console.log(undefined === null);//false

console.log(2+NaN);//NaN

console.log("2"+NaN);//2NaN

console.log("2"+undefined);//2undefined

console.log(2+undefined);//NaN

console.log(typeof "123");//string

console.log(typeof 2);//number

console.log(typeof true);//boolean

console.log(typeof undefined);//undefined

console.log(typeof null);//object

console.log(typeof []);//object

console.log(typeof 1n);//bigint

console.log(typeof 1n+2n);//bigint2

console.log(typeof 1+2n);//number2

console.log(typeof 1/1n);//TypeError: Cannot mix BigInt and other types, use explicit conversions

//1. What is the value of granted after the operation:

let username = "admin";

let password = "password";

let granted = (username === "admin" && password === "password") ? true : false;

console.log(granted)//true

//1. What is the value of message after the operation:

let username4 = "user";

let password4 = "wrongpassword";

let message = (username4 === "admin" && password4 === "password") ? "Login successful!" : "Invalid credentials.";

console.log(message)//Invalid credentials

//1. What is the value of access after the operation:

let username3 = "admin";

let password3 = "password";

let access = (username3 === "admin" || password3 === "password") ? "Granted" : "Denied";

console.log(access)//Granted

//1. What is the value of status after the operation:

let username1 = "";

let password1 = "password";

let status = (username1 !== "" && password1 === "password") ? "Logged in" : "Please enter username and password";

console.log(status);//Please enter username and password

//1. What is the value of authenticated after the operation:

let username2 = "admin";

let password2 = "wrongpassword";

let authenticated = (username2 === "admin" && password2 === "password") ? true : false;

console.log(authenticated)//false

// 1. What is the value of name after the operation:

let user = { name: "John" };

let name = user?.name ?? "Unknown";

console.log(name)//John

// 1. What is the value of price after the operation:

let product = { price: null };

let price = product?.price ?? "N/A";

console.log(price)//N/A

// 1. What is the value of address after the operation:

let customer = { address: { street: "123 Main St" } };

let address = customer?.address?.street ?? "Not available";

console.log(address)//123 Main St

// 1. What is the value of phone after the operation:

let contact = { phone: null };

let phone = contact?.phone ?? "Not provided";

console.log(phone)//Not provided

// 1. What is the value of description after the operation:

let item = { description: "" };

let description1 = item?.description ?? "No description available";

console.log(description1)//