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//Functions:
//JavaScript function is a set of statements that take inputs, do
some specific computation, and produce output.
// A JavaScript function is executed when "something" invokes it
(calls it).

// function userName(p1, p2) {
//code to be execute
// }
//return something
// name(a1, a2)
// call the fuction

// Example 1:
//Default
function userName() {
  console.log("Rohit");
}
userName();

// Example 2:
//with parameter
function myFunction(a, b) {
  console.log(a + b);
}
myFunction(10, 20);
// a, b are parameters
// 10 , 20 is arguments

// Example 3:
//default arguments
function sum(a = 5, b = 2) {
  console.log(a + b);
}
sum();

// Example 4:
function sum(a, b) {
  return a + b;
  console.log("sum");
}
console.log(sum(2, 3));
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// Example 5:
function myFunction1(g1, g2) {
    return g1 / g2;
}
const value = myFunction1(8, 2); // Calling the function
console.log(value);

//scope : scope is determine the visibility of variables

// 1. Block Scope:
//Example:
// {
// let x = 2;
// }

// 2. function scope:
// function sum()
// {

// }
//Example:
// let x = 10; => global variable --> access in outside of function or
in program
// function myFunction() {

// }

// function sum() {
//     let x = 10; => local variable --> access within function
// }

// Function Expression :
//Syntax : let user = function(para1, para2){
//set of statement
// }
//Example:

let square = function (num) {
    return num * num;
}
let x = square(5)

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console.log(x);

//Arrow Functions:
//Syntax : let myFunction = (a,b) => a*b;

let add = (a, b) => a + b;
console.log(add(3,2));
```