

## Untitled

Shuruaat karte hain JavaScript ke Basic Function Concepts se – ek-ek topic ko Hindi mein, code ke saath, output ke saath aur line-by-line samjhayenge.

### 1. Function Declaration

javascript

Copy

Edit

```
function greet() {  
    console.log("Namaste Duniya!");  
}
```

`greet();`

Explanation in Hindi:

```
function greet() { ... }
```

Ye ek function declaration hai.

`greet` naam ka function banaya gaya hai jo kuch bhi return nahi karta, sirf console par message dikhata hai.

```
console.log("Namaste Duniya!");
```

## Untitled

Jab function call hoga tab ye line execute hogi aur output console par aayega.

```
greet();
```

Ye function invocation hai – isse function chalaya gaya hai.

Output:

nginx

Copy

Edit

Namaste Duniya!

Agle topic par chalein? (Function Expression)? Ya kuch aur clarify karna chahoge?

You said:

Argument parameter with lamba code likh

ChatGPT said:

Chalo ab Parameters vs Arguments ka

## Untitled

concept bade aur clearly explained code ke saath Hindi mein dekhte hain – step by step with line-by-line explanation.

### Parameters vs Arguments – Long Code

Example

javascript

Copy

Edit

```
// Function Declaration with Parameters
function introduce(name, age, city) {
    console.log("Namaste! Mera naam " +
name + " hai.");
    console.log("Main " + age + " saal
ka/ki hoon.");
    console.log("Main " + city + " se
hoon.");
    console.log("-----");
}
```

```
// Function Call with Arguments
introduce("Rahul", 25, "Delhi");
introduce("Pooja", 22, "Mumbai");
introduce("Aryan", 30, "Bangalore");
Explanation in Hindi (Line-by-Line):
```

## Untitled

Function Declaration:

javascript

Copy

Edit

```
function introduce(name, age, city) {
```

Yahaan introduce ek function hai.

name, age, aur city ko parameters kehte hain.

Parameters sirf placeholders hote hain – jab function define kiya jata hai.

javascript

Copy

Edit

```
    console.log("Namaste! Mera naam " +  
name + " hai.");
```

Yahan name parameter ka value use karke message ban raha hai.

javascript

Copy

Edit

```
    console.log("Main " + age + " saal
```

## Untitled

```
ka/ki hoon.");  
age parameter ka use karke second line  
print hoti hai.
```

javascript

Copy

Edit

```
    console.log("Main " + city + " se  
hoon.");  
city ka use karke third line print hoti  
hai.
```

javascript

Copy

Edit

```
    console.log("-----");  
Line separator taaki output clean lage.
```

Function Calls (Arguments ke saath):

javascript

Copy

Edit

```
introduce("Rahul", 25, "Delhi");  
Yahaan "Rahul", 25, "Delhi" ko arguments  
kehte hain.
```

## Untitled

Ye actual values hain jo function ke parameters ko assign hoti hain.

javascript

Copy

Edit

```
introduce("Pooja", 22, "Mumbai");  
introduce("Aryan", 30, "Bangalore");  
Har call me naye arguments diye ja rahe  
hain.
```

Output:

markdown

Copy

Edit

```
Namaste! Mera naam Rahul hai.  
Main 25 saal ka/ki hoon.  
Main Delhi se hoon.
```

```
-----  
Namaste! Mera naam Pooja hai.  
Main 22 saal ka/ki hoon.  
Main Mumbai se hoon.
```

```
-----  
Namaste! Mera naam Aryan hai.
```

Untitled

Main 30 saal ka/ki hoon.

Main Bangalore se hoon.

-----

Agar chaho toh main isme default parameters, rest parameters aur arrow function version bhi bana sakta hoon. Batao next topic konsa chahiye – Return Statement ya Default Parameters?

You said:

Return statement

ChatGPT said:

Chalo ab return statement ka concept samajhte hain long code example ke saath – Hindi mein line-by-line explanation ke saath.

Return Statement – Full Example in Hindi javascript

Copy

Edit

```
// Ek function jo do numbers ka sum  
return karta hai  
function addNumbers(a, b) {  
    const sum = a + b;
```

Untitled

```
    return sum; // Yeh value function ke  
    bahar bhej di jaati hai  
}
```

```
// Return value ko kisi variable me  
store karke use karna  
const result1 = addNumbers(10, 20);  
console.log("Result 1: ", result1);
```

```
const result2 = addNumbers(50, 100);  
console.log("Result 2: ", result2);
```

```
// Return value ka direct use bhi kar  
sakte ho  
console.log("Direct Result: ",  
addNumbers(7, 3));
```

Explanation in Hindi (Line-by-Line):

Function Definition:

javascript

Copy

Edit

```
function addNumbers(a, b) {
```

Yeh function addNumbers do parameters (a  
aur b) leta hai.



## Untitled

javascript

Copy

Edit

```
const sum = a + b;
```

a aur b ka addition karke sum variable me store kiya gaya.

javascript

Copy

Edit

```
return sum;
```

Yeh return statement hai jo sum ki value function ke bahar bhej raha hai.

Jab bhi function call hoga, uska result yeh sum hoga.

Function Call aur Return Value ka Use:

javascript

Copy

Edit

```
const result1 = addNumbers(10, 20);
```

Yahaan addNumbers(10, 20) call kiya gaya.

Untitled

Return value (30) ko result1 me store kiya gaya.

javascript

Copy

Edit

```
console.log("Result 1: ", result1);  
Result 1: 30 output karega.
```

javascript

Copy

Edit

```
const result2 = addNumbers(50, 100);  
console.log("Result 2: ", result2);  
Output: Result 2: 150
```

javascript

Copy

Edit

```
console.log("Direct Result: ",  
addNumbers(7, 3));  
Function ko call karke result ko  
directly console.log me likh diya.
```

Output: Direct Result: 10

## Untitled

Output:

rust

Copy

Edit

Result 1: 30

Result 2: 150

Direct Result: 10

Note:

return ka matlab hota hai function se kisi value ko bahar bhejna.

Agar function me return nahi hai to uska result undefined hota hai.

Next topic chalu karein? Default Parameters ya Function Expression?

You said:

Default parameter

ChatGPT said:

Chalo ab samajhte hain Default

Parameters in JavaScript – ek

interactive long code example ke saath,

Untitled

Hindi mein line-by-line explanation.

Default Parameters - JavaScript Example

javascript

Copy

Edit

```
// Function with default parameters
function welcomeGuest(name = "Guest",
time = "Subah") {
    console.log("Namaste " + name + "
ji!");
    console.log("Aapka " + time + " mein
swagat hai.");

console.log("-----
-");
}

// Function call with all arguments
welcomeGuest("Ramesh", "Shaam");

// Function call with only one argument
welcomeGuest("Sita");

// Function call with no arguments
```

page12

## Untitled

```
welcomeGuest();
```

Explanation in Hindi (Line-by-Line):

```
javascript
```

Copy

Edit

```
function welcomeGuest(name = "Guest",  
time = "Subah") {
```

Yeh function name aur time naam ke do parameters leta hai.

Agar inme se koi argument na diya jaye to default values "Guest" aur "Subah" use ki jaayengi.

```
javascript
```

Copy

Edit

```
    console.log("Namaste " + name + "  
ji!");
```

```
    console.log("Aapka " + time + " mein  
swagat hai.");
```

```
console.log("-----  
-");
```

Function body me greeting message print

Untitled

hota hai, name aur time ke hisaab se.

Function Calls:

javascript

Copy

Edit

```
welcomeGuest("Ramesh", "Shaam");
```

Dono arguments diye gaye hain.

Output:

nginx

Copy

Edit

Namaste Ramesh ji!

Aapka Shaam mein swagat hai.

javascript

Copy

Edit

```
welcomeGuest("Sita");
```

Sirf name diya hai, time nahi.

time = "Subah" default use hoga.

Output:

## Untitled

nginx

Copy

Edit

Namaste Sita ji!

Aapka Subah mein swagat hai.

javascript

Copy

Edit

welcomeGuest();

Koi argument nahi diya gaya.

Dono default parameters use honge.

Output:

nginx

Copy

Edit

Namaste Guest ji!

Aapka Subah mein swagat hai.

Final Output:

markdown

Copy

Edit

Untitled

Namaste Ramesh ji!

Aapka Shaam mein swagat hai.

-----

Namaste Sita ji!

Aapka Subah mein swagat hai.

-----

Namaste Guest ji!

Aapka Subah mein swagat hai.

-----

Next Topics:

Rest Parameters (...args)

Function Expression

Arrow Function

Anonymous Function

Batao kaunsa pehle chahiye?

You said:

Yes

ChatGPT said:

Perfect! Agla topic lete hain:



## Untitled

Rest Parameters (...args) – JavaScript  
Example in Hindi

javascript

Copy

Edit

```
// Function to accept multiple arguments  
using rest parameter
```

```
function listFruits(owner, ...fruits) {  
    console.log("Fruit Seller: " + owner);  
    console.log("Fruits Available:");
```

```
    for (let fruit of fruits) {  
        console.log("- " + fruit);  
    }
```

```
    console.log("-----")  
    ;  
}
```

```
// Function call with multiple fruits  
listFruits("Bhabhi", "Apple", "Mango",  
"Banana");
```

Untitled

```
listFruits("Chintu", "Pineapple",  
"Grapes");
```

```
listFruits("Pintu");
```

Explanation in Hindi (Line-by-Line):

javascript

Copy

Edit

```
function listFruits(owner, ...fruits) {  
Yeh function owner naam ka ek normal  
parameter leta hai.
```

...fruits ek rest parameter hai – iska matlab hai baaki saare extra arguments ek array ban jaate hain.

javascript

Copy

Edit

```
console.log("Fruit Seller: " + owner);  
Pehle fruit seller ka naam print hota  
hai.
```

javascript

Copy

## Untitled

Edit

```
console.log("Fruits Available:");  
Fir fruits ki list aayegi.
```

javascript

Copy

Edit

```
for (let fruit of fruits) {  
    console.log("- " + fruit);  
}  
for...of loop se fruits array ke saare  
items print kiye jaate hain.
```

Function Calls:

javascript

Copy

Edit

```
listFruits("Bhabhi", "Apple", "Mango",  
"Banana");  
owner = "Bhabhi"
```

```
fruits = ["Apple", "Mango", "Banana"]
```

javascript

Copy

## Untitled

Edit

```
listFruits("Chintu", "Pineapple",  
"Grapes");  
owner = "Chintu"
```

```
fruits = ["Pineapple", "Grapes"]
```

javascript

Copy

Edit

```
listFruits("Pintu");  
owner = "Pintu"
```

```
fruits = [] (koi fruit nahi diya gaya)
```

Output:

markdown

Copy

Edit

Fruit Seller: Bhabhi

Fruits Available:

- Apple
- Mango
- Banana

-----

Untitled

Fruit Seller: Chintu

Fruits Available:

- Pineapple
- Grapes

-----  
Fruit Seller: Pintu

Fruits Available:

-----  
Rest parameters powerful hote hain jab  
hume unknown ya multiple inputs chahiye  
hoti hain.

Next topic ready hai:

Function Expression – ya chaho toh Arrow  
Function ya Anonymous Function bhi le  
sakte ho. Batao bhaiya ji?

You said:

Yes

ChatGPT said:

Bhaiya ji, chaliye ab lete hain agla  
topic: Function Expression – poori  
clarity ke saath, Hindi mein, code +  
explanation + output.

Untitled

Function Expression – JavaScript Example

javascript

Copy

Edit

```
// Function expression: function ko  
variable me assign karna  
const multiply = function (x, y) {  
    return x * y;  
};
```

```
// Function call  
const result = multiply(5, 4);  
console.log("Multiplication Result:",  
result);
```

```
// Dusra example: function expression  
with message  
const greet = function (name) {  
    console.log("Namaste " + name + "  
ji!");  
};
```

```
greet("Pooja");  
greet("Ravi");
```

Explanation in Hindi (Line-by-Line):

## Untitled

javascript

Copy

Edit

```
const multiply = function (x, y) {  
Yeh function expression hai.
```

Humne ek anonymous function banaya  
(jiska naam nahi hai).

Us function ko multiply variable me  
assign kar diya.

Is function ke parameters hain: x, y

javascript

Copy

Edit

```
    return x * y;
```

Yeh function x aur y ka product return  
karta hai.

javascript

Copy

Edit

```
const result = multiply(5, 4);
```

Untitled

```
console.log("Multiplication Result:",  
result);
```

Function call kiya gaya multiply(5, 4)

Output hoga: Multiplication Result: 20

javascript

Copy

Edit

```
const greet = function (name) {  
    console.log("Namaste " + name + "  
ji!");  
};
```

Ek aur function expression banaya jo  
kisi naam ko greet karta hai.

javascript

Copy

Edit

```
greet("Pooja");  
greet("Ravi");
```

Output:

nginx

Copy



## Untitled

Edit

Namaste Pooja ji!

Namaste Ravi ji!

Output:

rust

Copy

Edit

Multiplication Result: 20

Namaste Pooja ji!

Namaste Ravi ji!

Note:

Function expressions ko hum first-class citizens kehte hain – kyunki unhe variables me store kar sakte hain, as arguments pass kar sakte hain.

Jab function keyword ke baad naam nahi hota, usse anonymous function bhi kehte hain.

Next topic?

Arrow Functions ya Anonymous Functions?  
(Arrow next lein bhaiya?)

## Untitled

You said:

Anonymous

ChatGPT said:

Bhaiya ji, chaliye ab dekhte hain

Anonymous Functions – full explanation

Hindi mein, examples ke saath.

Anonymous Function – JavaScript Example

Anonymous ka matlab hota hai "bina naam ka" function. Iska use aksar function expressions, callbacks, ya immediate execution mein hota hai.

✓ Example 1: Function Expression ke saath Anonymous Function

javascript

Copy

Edit

```
const sayHello = function(name) {  
    console.log("Hello " + name + " ji!");  
};
```

```
sayHello("Sonam");
```

```
sayHello("Rahul");
```

Explanation:

## Untitled

Yahaan function ka koi naam nahi hai.

```
function(name) { ... } ko sayHello naam  
ke variable me assign kiya gaya.
```

Isliye jab hum sayHello("Sonam") call karte hain, function chal jaata hai.

Output:

nginx

Copy

Edit

Hello Sonam ji!

Hello Rahul ji!

☑ Example 2: Anonymous Function as  
Callback

javascript

Copy

Edit

```
setTimeout(function() {  
    console.log("3 second baad Bhabhi ji  
aayein...");  
}, 3000);
```

## Untitled

### Explanation:

Yahaan setTimeout() ke andar ek anonymous function diya gaya hai.

Is function ka naam nahi hai, bas kaam diya gaya hai.

3 seconds baad ye function automatically execute hoga.

Output (after 3 sec):

sql

Copy

Edit

3 second baad Bhabhi ji aayein...



Example 3: Immediately Invoked Function Expression (IIFE)

javascript

Copy

Edit

```
(function() {  
    console.log("Yeh function turant  
chala!");
```

## Untitled

```
})();
```

Explanation:

Yeh anonymous function turant invoke ho jaata hai.

IIFE ka kaam hota hai code ko isolate karna ya jaldi execute karna.

Output:

bash

Copy

Edit

Yeh function turant chala!

Summary in Hindi:

| Use Case | Example | Naam? |
|----------|---------|-------|
|----------|---------|-------|

|                   |             |  |
|-------------------|-------------|--|
| Variable me store | const fun = |  |
|-------------------|-------------|--|

|                  |      |  |
|------------------|------|--|
| function() {...} | Nahi |  |
|------------------|------|--|

Callback function

|                              |      |  |
|------------------------------|------|--|
| setTimeout(function() {...}) | Nahi |  |
|------------------------------|------|--|

|                |                      |  |
|----------------|----------------------|--|
| Turant chalana | (function() {...})() |  |
|----------------|----------------------|--|

Nahi

Anonymous function ka koi naam nahi hota, bas wo kisi kaam ke liye directly

Untitled

diya jaata hai.

Agle topic ke liye ready?

Arrow Function next lein kya bhaiya ji?

Bahut hi sundar aur short syntax hota hai iska!

You said:

Arrow function full explanation lamba code create product se aur mai bar bar call karu uska output bhi ana chahiye

ChatGPT said:

Bhaiya ji, ab lete hain Arrow Functions ka zabardast lamba real-world example – product creation aur bar-bar function call ke saath.

Poora line-by-line explanation in Hindi, output bhi aayega har call pe.

Arrow Function Real Project: Product Creator & Logger

javascript

Copy

Edit

// Product banane ke liye arrow function

Untitled

```
const createProduct = (name, price) => {  
  return {  
    name: name,  
    price: price,  
    getDetails: () => {  
      console.log(`Product: ${name},  
Price: ₹${price}`);  
    }  
  };  
};
```

```
// Teen product create karo  
const product1 = createProduct("iPhone  
15", 79999);  
const product2 = createProduct("Chappal  
by Bhabhi", 499);  
const product3 = createProduct("Lassi  
Glass", 60);
```

```
// Har product ka details bar bar call  
karo  
product1.getDetails();    // Output:  
iPhone 15  
product2.getDetails();    // Output:  
Chappal
```

Untitled

```
product3.getDetails();    // Output:  
Lassi
```

```
// Bar bar call karte hain
```

```
product1.getDetails();
```

```
product2.getDetails();
```

Explanation in Hindi (Line by Line):

javascript

Copy

Edit

```
const createProduct = (name, price) => {  
Yeh ek arrow function hai jiska naam  
createProduct hai.
```

name aur price parameters leta hai.

Arrow function ka syntax chhota aur  
clean hota hai.

javascript

Copy

Edit

```
    return {  
        name: name,  
        price: price,
```



Untitled

```
getDetails: () => {  
    console.log(`Product: ${name},  
Price: ₹${price}`);  
}  
};
```

Yeh ek object return karta hai.

getDetails bhi ek arrow function hai –  
jo product ke naam aur price ko console  
par print karta hai.

Yeh function closure ke zariye name aur  
price ko yaad rakhta hai.

javascript

Copy

Edit

```
const product1 = createProduct("iPhone  
15", 79999);  
const product2 = createProduct("Chappal  
by Bhabhi", 499);  
const product3 = createProduct("Lassi  
Glass", 60);  
3 alag alag product banaye.
```

## Untitled

javascript

Copy

Edit

```
product1.getDetails();
```

Jab bhi call karoge, product ka naam aur price print hoga.

Output:

yaml

Copy

Edit

```
Product: iPhone 15, Price: ₹79999
```

```
Product: Chappal by Bhabhi, Price: ₹499
```

```
Product: Lassi Glass, Price: ₹60
```

```
Product: iPhone 15, Price: ₹79999
```

```
Product: Chappal by Bhabhi, Price: ₹499
```

Arrow Function Ki Special Baat:

this keyword inherit nahi karta – ye lexical scope use karta hai.

Short syntax:

js

Copy

Edit

Untitled

```
const sum = (a, b) => a + b;
```

Agle topic chahiye kya bhaiya?

"this", "static", inheritance, ya fir  
filter / reduce method ka bhabhi-style  
app?

Bol do, turant bana ke deta hoon!

Search