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!");
                  page1
```

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 page2

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
Fdit
// 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):
                 page3
```

```
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
```

page4

```
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.
```

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.
                  page6
```

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;
    page7
```

```
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
Fdit
const result1 = addNumbers(10, 20);
Yahaan addNumbers(10, 20) call kiya
gaya.
```

```
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
```

page10

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,

page11

# Untitled Hindi mein line-by-line explanation.

```
Default Parameters - JavaScript Example
javascript
Copy
Fdit
// 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
Fdit
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
Fdit
  console.log("Namaste " + name + "
ji!");
  console.log("Aapka " + time + " mein
swagat hai.");
console.log("-----
-");
Function body me greeting message print
                 page13
```

```
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
Fdit
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:
```

page14

```
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
Fdit
                  page15
```

```
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:
                  page16
```

```
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
                 page18
```

```
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
                  page19
```

```
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
                  page20
```

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):
                 page22
```

```
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
Fdit
  return x * y;
Yeh function x aur y ka product return
karta hai.
javascript
Copy
Edit
const result = multiply(5, 4);
                 page23
```

```
Untitled
console.log("Multiplication Result:",
result);
Function call kiya gaya multiply(5, 4)
Output hoga: Multiplication Result: 20
javascript
Copy
Fdit
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
```

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?)

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.

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 Fdit Hello Sonam ji! Hello Rahul ji! ✓ Example 2: Anonymous Function as Callback javascript Copy Fdit setTimeout(function() { console.log("3 second baad Bhabhi ji aayein..."); }, 3000);

# **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):

```
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!");
```

page28

})();

**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 Fdit Yeh function turant chala! Summary in Hindi: Use Case Example Naam? const fun = Variable me store 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 page29

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
page30

```
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
                 page31
```

```
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,
                 page32
```

```
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.

```
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
```

page34

Copy

Fdit

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!