

Client Side Scripting





CO2

- Implement Arrays and functions in Java script

LO3

- Develop JavaScript to implement the given function



TEACHING AND EXAMINATION SCHEME

Teaching Scheme			Credit (L+T+P)	Examination Scheme												
L	T	P		Theory						Practical						
				Paper Hrs.	ESE		PA		Total		ESE		PA		Total	
					Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
3	-	2	5	3	70	28	30*	00	100	40	25#	10	25	10	50	20



CONTENTS

1. Function
2. Calling a Function

FUNCTION



1. Defining a Function
2. Writing a Function
3. Adding an Arguments
4. Scope of variable and Argument



DEFINING A FUNCTION

The function definition consist of following parts:

1. The function keyword with name of function.
2. A list of parameters names enclosed in parentheses.
3. The statement enclosed in braces.
4. The return keyword (optional).

Syntax :

```
Function name (parameters)
{
statements
}
```

WRITING A FUNCTION



Program : Write a Javascript code to demonstrate function.

```
<html>
<head>
<title>function demo</title>
</head>
<script language="Javascript" type="text/javascript">
<function display()
{
document. Write("in display function");
}
</script>
<body>
</body>
</html>
```

ADDING AN ARGUMENTS



- When one or more variables that are declared within the parentheses of a function definition is known as arguments.

Program : Write a Javascript code to pass arguments to user define function

```
<html>
<head>
<title>function demo</title>
</head>
<script language="Javascript" type="text/javascript">
<function display( name, age)
{
document. Write ("details =" +name + age);
}
</script>
<body>
</body>
</html>
```


SCOPE OF VARIABLE AND ARGUMENT



There are two types of scope

1. **Global scope:** All the variables that you declare, is by default defined in global scope. When a variable is declared outside a function with a var keyword then that variable is a global variable because it is available through all parts of script.
2. **Local scope:** All variable which are declared using var keyword within function then those variables are known as local variables and they are accessible within function only.

Program : Write a Javascript code to demonstrate scope of variable.

```
<html>
<head>
<title>function demo</title>
</head>
<script language="Javascript" type="text/javascript">
Var g="welcome";
Function display()
{
Var1="thanks";
document. Write("global value="+g);
document. Write("<br>local value="+1);
}
display();
```

SCOPE OF VARIABLE AND ARGUMENT- EXAMPLE



Program : Write a Javascript code to demonstrate scope of variable.

```
<html>
<head>
<title>function demo</title>
</head>
<script language="Javascript" type="text/javascript">
Var g="welcome";
Function display()
{
Var 1="thanks";
document. Write("global value="+g);
document. Write("<br>local value="+1);
}
display();
</script>
<body>
</body>
</html>
```

CALLING A FUNCTION



1. Calling a Function with or without argument
2. Calling a Function from HTML
3. Function Calling another Function
4. Returning a value from Function

CALLING A FUNCTION WITHOUT ARGUMENT



In Javascript function calling is by using name of function followed by parentheses

Syntax :

```
function_name ( );
```

Program : Write a Javascript code to call user define.

```
<html>
<head>
<title>function demo</title>
</head>
<script language="Javascript" type="text/javascript">
Function area()
{
var l=5;
var b=3;
document. Write("area of rectangle=" + (l*b));
}
area( );
</script>
<body>
</body>
</html>
```

CALLING A FUNCTION WITH ARGUMENT



If function has arguments (parameters) then values for each argument in placed within parentheses separated by commas.

Syntax :

```
function_name ( values_for_parameters);
```

Program : Write a Javascript code to demonstrate function calling with arguments.

```
<html>
<head>
<title>function demo</title>
</head>
<script language="Javascript" type="text/javascript">
Function area(l,b)
{
document. Write("area of rectangle=" + (l*b));
}
area(10,2);
</script>
<body>
</body>
</html>
```

CALLING A FUNCTION FROM HTML



In Javascript functions can be called from HTML code in response of any particular event like page load , page unload, button click,etc

Program : Write a Javascript code to call function from HTML.

```
<html>
<head>
<title>function demo</title>
</head>
<script language="Javascript" type="text/javascript">
Function open( )
{
Alert("welcome");
}
Function close( )
{
Alert("thank you");
}
</script>
</head>
<body onload="open()" onunload="close()">
</body>
</html>
```

FUNCTION CALLING ANOTHER FUNCTION

In Javascript we can call one function inside another function.



Program : Write a Javascript code to demonstrate function calling another function.

```
<html>
<head>
<title>function demo</title>
</head>
<script language="Javascript" type="text/javascript">
Function accept(s)
{
document. Write("enter your city="+s);
}
Function display( )
{
Accept("mumbai");
}
display();
</script>
</head>
<body >
</body> </html>
```

RETURNING A VALUE FROM FUNCTION

The 'return' keyword stops the execution of function and the value is return from function to the function caller.



Syntax :

```
return value;
```

Program : Write a Javascript code to return a value from function.

```
<html>
<head>
<title>function demo</title>
</head>
<script language="Javascript" type="text/javascript">
Function accept( )
{
Var s=prompt('enter your city');
return (s);
}
Var r=accept();
document. Write(r);
</script>
</head>
<body > </body> </html>
```




QUIZ TIME

Q1. How do you initialize an array in C?

- a) `int arr[3] = (1,2,3);`
- b) `int arr(3) = {1,2,3};`
- c) `int arr[3] = {1,2,3};`
- d) `int arr(3) = (1,2,3);`

► **Ans. C. int
arr[3] =
{1,2,3};**

Q2 . Types of Integers are

- (a) short
- (b) int
- (c) long
- (d) All the above

► **Ans. d. All the above**

QUIZ TIME



Q3. Choose a correct statement about C language arrays

- a) An array address is the address of first element of array itself.
- b) An array size must be declared if not initialized immediately.
- c) Array size is the sum of sizes of all elements of the array.
- d) All of the above

► **Ans. d. All of the above**

• Q4. An array Index starts with.?

- a) -1
- b) 0
- c) 1
- d) 2

► **Ans. b. -1**



Thank You