

FUNCTIONS

Function:

A group of statements into a single logical unit is called as function. Functions are used to perform the task.

Function is not called automatically. Function must be called explicitly after defining it.

By using function keyword we can define a function.

Advantages of Functions:

- 1) Modularity
- 2) Reusability

There are four categories of functions:

- 1) Functions with arguments and with return value.
- 2) Functions with arguments and without return value.
- 3) Functions without arguments and with return value
- 4) Functions without arguments and without return value.

1) <!-- Function with arguments and with return value -->

```
<html><body><script>
```

```
function add(a,b)
```

```
{
```

```
    return a+b;
```

```
}
```

```
let x=add(5,3);
```

```
document.write(x);
```

```
</script></body></html>
```

2) <!-- Function with arguments and without return value -->

```
<html><body><script>
```

```
function add(a,b)
```

```
{
```

```
    document.write(a+b);
```

```
}
```

```
add(9,3);
```

```
</script></body></html>
```

3) <!-- Function without arguments and with return value -->

```
<html><body><script>
```

```
function get()
```

```
{
```

```
    return 10;
```

```
}
```

```
let x=get();
```

```
document.write(x);
```

```
</script></body></html>
```

4) <!-- Function without arguments and without return value -->

```
<html><body><script>
```

```
function display()
```

```
{  
    document.write("Welcome");  
}  
display();  
</script></body></html>
```

Anonymous Function:

A function that has no name is called as an anonymous function.

Example:

```
<html><body><script>  
let x=function(a,b)  
{  
    return a+b;  
}  
let y=x(10,20);  
document.write(y);  
</script></body></html>
```

Self Invoking Function:

A function that can be called itself while defining it is called as self invoking function. It is also one type of anonymous function.

Example:

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

```
document.write(a+b);  
})(10,20);
```

Arrow Functions:

Arrow function that allows to write an anonymous function new way without using function keyword, return keyword and curly braces.

Example1:

```
<html><body><script>  
let x=(a,b)=>a+b;  
let y=x(10,20);  
document.write(y);  
</script></body></html>
```

Example2:

```
<html><body><script>  
let x=(a,b)=>document.write(a+b);  
x(10,20);  
</script></body></html>
```

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