

## **Module 8) JavaScript**

### **Functions**

**Question 1: What are functions in JavaScript? Explain the syntax for declaring and calling a function.**

**Answer:**

A function in JavaScript is a block of reusable code that performs a specific task. You can declare a function using the `function` keyword, and call it by its name.

**Syntax:**

**javascript**

**// Declaring a function**

```
function sefin() {  
    document.write("Hello, welcome to JavaScript!<br>");  
}
```

**// Calling the function**

```
sefin(); // This will call the greet function
```

**Question 2: What is the difference between a function declaration and a function expression?**

**Answer:**

A **function declaration** defines a function with a name and can be called before its definition. A **function expression** defines a function as part of an expression and can only be called after it's defined.

**Function Declaration:**

**javascript**

```
function sayHi() {  
    document.write("Hi there!<br>");  
}
```

## Function Expression:

### javascript

```
const sayHello = function() {  
    document.write("Hello there!<br>");  
};
```

**Question 3: Discuss the concept of parameters and return values in functions.**

**Answer:**

**Parameters** are values passed into a function to be used inside it. **Return values** are the values a function gives back after it finishes its task.

### javascript

**// Function with parameters and a return value**

```
function add(a, b) {  
    return a + b;  
}
```

```
let result = add(3, 4); // Pass 3 and 4 as parameters  
document.write("The sum is: " + result + "<br>"); //  
Return value is 7
```

This shows how functions can take input (parameters) and give output return value.