**Department of Information Technology**

**Academic Year: 2022-23 Name of Student: Aaswit**

**Semester: V Student ID:**

**Class / Branch/ Div: TE- IT A Roll No.**

**Subject: IP Lab Date of Submission:**

**Name of Instructor: RS**

**Experiment No.:5**

**Aim:**  Write a program to implement ES6 functions.

**Software Used:** Visual Studio Code or Sublime Editor

**Program:**

1. **Anonymous function**

**<!DOCTYPE html>**

**<html>**

**<body>**

**<h2>JavaScript Functions</h2>**

**<p id="demo"></p>**

**<script>**

**//Anonymous function**

**var hello = function() { //function Expression**

**console.log('Hello World');**

**console.log('I am an anonymous function');**

**}**

**hello();**

**// Parameterized Anonymous function**

**var anon = function(a,b) //function Expression**

**{**

**return a+b**

**}**

**function sum() {**

**var res;**

**res = anon(100,200);**

**console.log("Sum: "+res)**

**}**

**sum()**

**</script>**

**</body>**

**</html>**

1. **Fibonacci program using Arrow function**

**<Html>**

**<head>**

**<title>**

**JavaScript Function**

**</title>**

**<script type="text/javascript">**

**var fun = fibo => {**

**var pop = prompt("Enter the count of values in the series", " ");**

**var var1 = 0, var2 = 1;**

**document.write("Here is the fibonacci series : ");**

**document.write("", var1, " ");**

**document.write("", var2, " ");**

**var counter, sum;**

**for (counter = 2; counter < pop; counter++) {**

**sum = var1 + var2;**

**document.write("", sum, " ");**

**var1 = var2;**

**var2 = sum;**

**}**

**}**

**fun();**

**</script>**

**</head>**

**<body>**

**</body>**

**</html>**

1. **Function with rest parameter**

**<!DOCTYPE html>**

**<html>**

**<body>**

**<h2>JavaScript Functions</h2>**

**<p id="demo"></p>**

**<script>**

**function fun1(...params) {**

**console.log(params.length);**

**}**

**fun1();**

**fun1(5);**

**fun1(5, 6, 7, 6);**

**function show(a, ...args)**

**{**

**document.write(a + " " + args);**

**}**

**show(50,60,70,80,90,100);**

**</script>**

**</body>**

**</html>**

1. **Function with default parameter**

**<!DOCTYPE html>**

**<html>**

**<body>**

**<h2>JavaScript Functions</h2>**

**<p id="demo"></p>**

**<script>**

**//define a function**

**function test() {**

**console.log("function called")**

**}**

**//call the function**

**test()**

**function add( n1,n2) {**

**var sum = n1 + n2**

**console.log("The sum of the values entered "+sum)**

**}**

**add(12,13)**

**//Default Function Parameter**

**function show (num1, num2=200)**

**{**

**console.log("num1 = " +num1);**

**console.log("num2 = " +num2);**

**}**

**show(100);**

**</script>**

**</body>**

**</html>**

**Conclusion:** In this experiment we have studied and implemented various functions in ES6 like Arrow function, Anonymous function & normal function with default parameter, rest parameter etc & also understand the syntax difference among all.