**PRACTICAL NO 5**

**Date of Performance:** 15-09-2022

**Software Requirement:** Visual Studio Code, Notepad, Notepad++,

NodeJS

**Aim:** To use JavaScript to write codes based on normal, arrow,

anonymous and generator functions .

**Objectives:** The aim of this experiment is that the students will

be able to:

★ Implement JavaScript codes based on functions.

★ Understand different features of JavaScript functions & its

usage in code.

**Outcomes:** After study of this experiment, the students will be

able to:

★ Write and run functions in JavaScript.

★ Implement the usage of different functions in JavaScript.

**Prerequisite:** Basic knowledge of JavaScript syntax required.

**Problem Statement:**

Implement functions in JS (Arrow, Normal & Anonymous) &

generator function.

**Code:**

function add() {

let a = 8,b = 2;

console.log(`The addition using normal function without parameter is ${a +

b}`);

}

add();

function add2(a, b) {

console.log(`The addition using normal function with parameter is ${a + b}`);

}

add2(45, 67);

const arrowAdd = () => {

let a = 100,b = 25;

console.log(`The addition using arrow function without parameter is ${a +

b}`);

};

arrowAdd();AYAAN SAYED

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const arrowAdd2 = (a, b) => {

console.log(`The addition using arrow function with parameter is ${a + b}`);

};

arrowAdd2(90, 35);

const anonymousAdd = function () {

let a = 52, b = 78 ;

return `The addition using anonymous function without parameter is ${a +

b}`;

};

let x = anonymousAdd();

console.log(x);

const anonymousAdd2 = function (a, b) {

return `The addition using anonymous function with parameter is ${a + b}`;

};

let y = anonymousAdd2(42, 8);

console.log(y);

**Output:**

PS G:\html> node --version

v16.17.0

PS G:\html> node exp5.js

The addition using normal function without parameter is 10

The addition using normal function with parameter is 112

The addition using arrow function without parameter is 125

The addition using arrow function with parameter is 125

The addition using anonymous function without parameter is 130

The addition using anonymous function with parameter is 50

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**Source Code:** Generator function:

function\* generator(x) {

yield x;

yield x \* 5;

yield x \* 3;

yield x + 2;

yield x - 8;

}

const gen = generator(39);

console.log("Output for each yield is:")

console.log(gen.next().value);

console.log(gen.next().value);

console.log(gen.next().value);

console.log(gen.next().value);

console.log(gen.next().value);

**Output:**

PS G:\html> node --version

v16.17.0

PS G:\html> node exp52.js

Output for each yield is:

39

195

117

41

31

PS G:\html>

**Conclusion:**

From this experiment we understand that JavaScript is a very

powerful web language and is used at a large scale. We have

learned how to implement JavaScript normal, arrow and anonymous functions/generator functions in programs and understood it’s

syntax.