<!DOCTYPE html>

<html>

<head>

<script>

const students = [{ name: "Ajay", subject: "Maths" },

{ name: "Deepak", subject: "Maths" },

{ name: "Sahil", subject: "English" }

];

function EnrollStudent(student) {

setTimeout(function () {

students.push(student);

console.log("Student has been enrolled");

}, 3000);

}

function GetStudents() {

setTimeout(function () {

let str = "";

students.forEach(function (student) {

str += `<li>${student.name} </li>`

});

document.getElementById("list").innerHTML = str;

console.log("Students are fetched");

}, 1000);

}

let newStudent = { name: "Lalit", subject: "C++" };

EnrollStudent(newStudent);

GetStudents();

</script>

</head>

<body>

<ul id="list">

</ul>

</body>

</html>

<!DOCTYPE html>

<html>

<head>

<script>

const students = [{ name: "Ajay", subject: "Maths" },

{ name: "Deepak", subject: "Maths" },

{ name: "Sahil", subject: "English" }

];

function EnrollStudent(student, callBack) {

setTimeout(function () {

students.push(student);

console.log("Student has been enrolled");

callBack();

}, 8000);

}

function GetStudents() {

setTimeout(function () {

let str = "";

students.forEach(function (student) {

str += `<li>${student.name} </li>`

});

document.getElementById("list").innerHTML = str;

console.log("Students are fetched");

}, 1000);

}

let newStudent = { name: "Lalit", subject: "C++" };

EnrollStudent(newStudent, GetStudents);

//GetStudents();

</script>

</head>

<body>

<ul id="list">

</ul>

</body>

</html>

CALLBACK WILL WAIT UNTIL THE CALLING METHOD IS COMPLETED