

Assignment No	5
Title	Event Handling in node js
Objective	A) To create events and show different operations using Eventemitter B) To create events for calculator and write arrow functions for each event
Roll No	MCA2511

CODE & OUTPUT:

A) To create events and show different operations using Eventemitter.

event1.js:

```
var e = require('events');
var event = new e.EventEmitter();

function CreateFile(){
    console.log("Creating a file");
}

function Read() {
    console.log("Reading a file");
}

function Write() {
    console.log("Writing a file");
}

event.addListener("IOoperations", Write);
event.addListener("IOoperations", Read);
event.once("CreateIO", CreateFile);
console.log(event.listenerCount("CreateIO"));
event.emit("CreateIO");

event.emit("IOoperations");
event.emit("IOoperations");
console.log(event.rawListeners("IOoperations"));
console.log(event.listenerCount("IOoperations"));
```

```
event.removeListener("IOoperations", Read);
event.emit("IOoperations");
console.log(event.listenerCount("IOoperations"));
event.emit("CreateIO");
console.log(event.listenerCount("CreateIO"));
```

Output:

```
PS C:\Users\mcamock\Desktop\WEB_LAB\node.js> node event1.js
Debugger attached.
1
Creating a file
Writing a file
Reading a file
Writing a file
Reading a file
[ [Function: Write], [Function: Read] ]
2
Writing a file
0
0
Waiting for the debugger to disconnect...
```

B) To create events for calculator and write arrow functions for each event.

eventhandlingcalculator.js:

```
var e = require('events');
var evmt = new e.EventEmitter();

evmt.on("div", (no1,no2)=>
{
    console.log(` ${no1} / ${no2} = ${no1/no2}`);
});
evmt.on("add", (no1,no2)=>
{
    console.log(` ${no1} + ${no2} = ${no1+no2}`);
});
evmt.on("sub", (no1,no2)=>
{
    console.log(` ${no1} - ${no2} = ${no1-no2}`);
});
evmt.on("mod", (no1,no2)=>
{
    console.log(` ${no1} % ${no2} = ${no1%no2}`);
});
evmt.on("sqrt", (no1)=>
{
    console.log(`Square root of ${no1} = ${Math.sqrt(no1)})`);
});
evmt.emit("add",10,20);
evmt.emit("div",10,2);
evmt.emit("sqrt",625);
evmt.emit("mod",10,20);
evmt.emit("sub",10,20);
```

Output:

```
PS C:\Users\mcamock\Desktop\WEB_LAB\node.js> node eventhandlingcalculator.js
Debugger attached.
10 + 20 = 30
10 / 2 = 5
Square root of 625 = 25
10 % 20 = 10
10 - 20 = -10
Waiting for the debugger to disconnect...
```