Program No:	3
Roll No :	1525
Title of Program :	
Objective :	Lab 7 : Event emitter with parameterized and arrow functions B1
	A. Event CustomerInfo which emits by passing values B. Event Salary registered using arrow function C Event Calculator using arrow fnction

SOURCE CODE:

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

var customerinfo = function (code, cname, city, emailid) {
    console.log("Customer No: " + code);
    console.log("Customer Name: " + cname);
    console.log("City: " + city);
    console.log("Email ID: " + emailid);
};

// Corrected this line
event.on("customerinfo", customerinfo);

// Emit the event
event.emit("customerinfo", 1, 'bhairav', 'thane', "bhairav.kedare@met.edu\n");

event.emit("customerinfo", 1, 'yash', 'virar', "metstudentSCHOLAR@met.edu");
```

OUTPUT:

```
PS C:\Users\mcamock\web> node .\eventhandlingcustomer.js
Customer No: 1
Customer Name: bhairav
City: thane
Email ID: bhairav.kedare@met.edu

Customer No: 1
Customer Name: yash
City: virar
Email ID: metstudentSCHOLAR@met.edu
```

B. Event Salary registered using arrow function

Source code:

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

event.on("calculatesalary", (basic) => {
    var hra = basic * 0.6; // HRA is 60% of basic
    var da = basic; // Dearness Allowance
    var pt = 200; // Profession Tax
    var it = basic; // Income Tax
    var gross = basic + hra + da; // Gross Salary calculation
    var net = gross - (pt + it); // Net Salary calculation

    console.log(`Basic Salary : ${basic}`);
    console.log(`Dearness Allowance : ${da}`);
    console.log(`HRA : ${hra}`);
    console.log(`Profession Tax: ${pt}`);
    console.log(`Income Tax: ${it}`);
    console.log(`Gross Salary  : ${gross}`);
    console.log(`Net Salary : ${net}`);
});

// Example of emitting the event with a basic salary
event.emit("calculatesalary", 10000); // Example basic salary
```

OUTPUT:

```
PS C:\Users\mcamock\web> node .\eventhandlingsalary.js
Basic Salary : 10000
Dearness Allowance : 10000
HRA : 6000
Profession Tax: 200
Income Tax: 10000
Gross Salary   : 26000
Net Salary : 15800
PS C:\Users\mcamock\web>
```

C Event Calculator using arrow function

source code:

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

event.on("div", (no1, no2) => {
    console.log(`${no1}/${no2}=${no1/no2}`);
});

event.on("add", (no1, no2) => {
    console.log(`${no1}+${no2}=${no1+no2}`);  // Fixed: Changed no1/no2 to no1+no2
});

event.on("mod", (no1, no2) => {
    console.log(`${no1}%${no2}=${no1%no2}`);  // Fixed: Changed no1/no2 to no1%no2
});

event.on("sqrt", (no1) => {  // no2 is not needed here
    console.log(`Squareroot of ${no1} = ${Math.sqrt(no1)}`);  // Fixed: Corrected the square root calculation
});

event.emit("div", 50, 10);
event.emit("add", 10, 20);
event.emit("sqrt", 25);
event.emit("mod", 35, 2);
```

OUTPUT:

```
PS C:\Users\mcamock\web> node  .\eventhandlingcalculator.js
50/10=5
10+20=30
Squareroot of 25 = 5
35%2=1
PS C:\Users\mcamock\web>
```