



Program No:	4	
Roll No:	1534	
Title of Program:	Lab 6 : To demonstrate events and event emitter class B1	
Objective :		

```
Source code:
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("IOoperation",Read);
event.once("CreateIO",CreateFile);
console.log(event.listenerCount("CreateIO "));
event.emit("CreateIO");
event.emit("IOoperations");
event.emit("IOoperations");
console.log(event.rawListeners("IOperations")); // this will function
console.log(event.listenerCount("IOoperation"));
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\web> node events1.js

creating a file
writing a file
writing a file
[]

writing a file

refl

PS C:\Users\mcamock\web>
```

ARRAY:

SOURCE CODE:

```
var e = require('events');
var event = new e.EventEmitter();
var A = [7,2,5,4,3,6];
var st = ['a', 'v', 'o', 'i', 'r'];
function sortarray()
  console.log("Array before Soring");
  console.log(st);
  st.sort();
  console.log("Array after sorting");
  console.log(st);
function sumofevenelements()
  var sum = 0;
  for(i=0;i<A.length;i++)
     if(1\%2==0) sum += A[i];
   console.log("Sum of odd elements in aray is : "+sum);
}
var searcharray = function (ch)
  flag = false;
```



```
for (i=0;i<st.length;i++)
    if(st[i]==ch) {flag=true;
     break;}
  if(flag) console.log(ch + "is found");
  else console.log(ch+"is not found");
  }
}
event.addListener("sort",sortarray);
event.on("sumeven",sumofevenelements);
event.on("sumodd", sumofevenelements);
event.on("search",searcharray);
event.emit("sort");
event.emit("sumodd");
event.emit("sumeven");
event.emit("search",'F');
OUTPUT:
```

```
PS C:\Users\mcamock\web> node .\array.js
Array before Soring
['a', 'v', 'o', 'i', 'r']
Array after sorting
['a', 'i', 'o', 'r', 'v']
Sum of odd elements in aray is : 0
Sum of odd elements in aray is : 0
Fis not found
```





```
source code: var e = require('events');
var event = new e.EventEmitter();
function Tea() {
  console.log("Making Tea");
  event.emit("gason");
}
event.addListener("tea",Tea);
function gason () {
  console.log("put the gas on ....");
  event.emit("boilwater");
}
event.addListener("gason",gason);
function boilwater() {
  console.log("let the water boil");
  event.emit("addtea");
event.addListener("boilwater",boilwater);
function addtea() {
  console.log("adding tea leaves in the water");
  event.emit('milkandsugar');
event.addListener("addtea",addtea);
function milkandsugar() {
  console.log("Adding milk and sugar");
  console.log("tea is ready");
event.addListener("milkandsugar",milkandsugar);
event.emit("tea");
OUTPUT:
```



```
PS C:\Users\mcamock\web> node .\events2.js

Making Tea

put the gas on ....

let the water boil

adding tea leaves in the water

Adding milk and sugar

tea is ready

PS C:\Users\mcamock\web>
```