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|  | **BAHRIA UNIVERSITY,**  **(Karachi Campus)**  *Department of Software Engineering*  **ASSIGNMENT#03 – Fall 2023**  **COMPLEX ENGINEERING PROBLEM** |

Course Title: **Web Engineering** Course Code: **SEN-310**

Class: **BSE-5(B)** Shift: **Morning**

Course Instructor: **Engr. M. Adnan Ur Rehman** Time Allowed:  **01 Week.**

Date: **28-Dec-2023** Max. Marks: **20 Points**

**Instructions:**

* Submit this assignment in a group consist up to 3 members. All members of the group MUST submit.
* All members of the group MUST upload the same solution in LMS.
* You have to submit a compressed containing the following:
  1. ***This title page file*** **.docx** after filling the group names and output of your program
  2. ***Component files*** May include **.html** and **.js** files

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| **GROUP MEMBERS** | | |
| **S.No.** | **Student Name** | **Enrolment#** |
| 01 | Muhammad Shoaib Akhter Qadri | 02-131212-009 |
| 02 | Muhammad Yahya |  |
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**Task: *[CLO-3; 20 Points]***

Create a NodeJS application that demonstrates how an event can be triggered by a module while that event is registered within another module?

In other words, if you have two modules such that one is registering an event and another is emitting same event. How will you code for that?

Solution:

Emitter.js

const EventEmitter = require('events');

class MyEmitter extends EventEmitter {}

const myEmitter = new MyEmitter();

setTimeout(() => {

  myEmitter.emit('customEvent', 'Event emitted after 2 seconds');

}, 2000);

module.exports = myEmitter;

listener.js

const emitter = require('./emitter');

emitter.on('customEvent', (message) => {

  console.log('Listener module received:', message);

});

App.js

require('./listener');

Output:



