

GANAPAT UNIVERSITY
U. V. PATEL COLLEGE OF ENGINEERING
B. Tech Semester V (CE/IT)
2CEIT5PE4: Software Packages
Assignment – 1

Date:11/08/2023

1.	Explain the concept of Event-Driven programming in Node.js? How does Event Loop work in Node.js?
2.	Write a Node.js program to take a list of number from command line arguments and print all the numbers in ascending order without using any in-built function. For example: >> node example1.js 1 5 7 2 9 0 Number in ascending order: 0,1,2,3,5,7,9
3.	Define module and its type in Node.js. Explain local module in node.js with an example. Create a local module named string_manipulate.js that provides utility functions for manipulating strings. Export functions to capitalize the first letter of a string and to check if a string is a palindrome. Then, use this module in a program named app.js to demonstrate the functionality of the exported functions.
4.	Create a Node.js program that serves an HTML page with a form to collect user input for book details. The form should collect information such as Book Title, Author and Price. When the form is submitted, the program should store the collected data into a file named book_data.txt.
5.	What is the purpose of Buffer class in Node.js? How does it store data?
6.	Explain Process object with its properties and methods.
7.	Define NPM. How to install, update and delete package in Node.js?
8.	Explain EventEmitter class with different methods and events.
9.	Give the output of following codes: <ol style="list-style-type: none"> 1. <pre>var queryString1 = require('url').parse('https://www.uvpce.ac.in/CE/syllbus/Soft_pacg/?programmin g=nodejs',true); console.log(queryString1); console.log("Path name is :-"+queryString1.pathname); console.log("Query Object :-"+JSON.stringify(queryString1.query));</pre> 2. <pre>const name = 'Ganpat_University'; var result=require('path').join('/', 'users', name, 'node.txt'); console.log(result);</pre>

Last Date to submit: 26/08/2023

Note: 1) Use notebook to write assignment.

2) Write Enrollment Number and page number on each page of Assignment.

3) Verify assignment to lab faculty.

4) After verification, scan all pages of assignment and make single pdf file. File name must be EnrollmentNumber_SP_Assignment-1.pdf.

4) Upload pdf file on moodle.