Vidyavardhini's College of Engineering and Technology

Department of Artificial Intelligence & Data Science

AY: 2025-26

Class:	TE	Semester:	V
Course Code:	CSC502	Course Name:	Web Computing.

Name of Student:	Yash Nilesh Kasare
Roll No. :	27
Assignment No.:	O4
Title of Assignment:	using Node.js develop backend application.
Date of Submission:	30/9/25
Date of Correction:	30/9/25

Evaluation

Performance Indicator	Max. Marks	Marks Obtained
Completeness	5	4
Demonstrated Knowledge	3	3
Legibility	2	1
Total	10	8

Performance Indicator	Exceed Expectations (EE)	Meet Expectations (ME)	Below Expectations (BE)
Completeness	5	3-4	1-2
Demonstrated Knowledge Legibility	3	2	1
Legibility	2	1	0

Checked by

Name of Faculty : Ms. Kshitija Gharat.

Signature : Gharat

Date : 30/9/25

Q.1. A Node.js program that calculates and prints the sum of numbers from 1 to 20.

```
let sum = 0;

for (let i = 1; i <= 10; i++) {
    Sum += i;
}
console.log("The sum of numbers from 1 to 10: ",
            sum);
```

OUTPUT.
the sum of numbers from 1 to 10 is : 55

Q.2. A node.js program that reads a list of filenames from a directory, filters them to find files with a specific extension.

```
const fs = require("fs");
const path = require("path");
const directoryPath = "./";
const extension = ".txt";

fs.readdir(directoryPath, (err, files) => {
    if (err) {
        console.error("error reading directory:", err);
        return;
    }
}
```

```
const textfiles = files.filter (file => path.extna.
    === extension);
    if (txtfiles.lenght === 0) {
        console.log (" NO files with ${extension} extensior
                    found.");
    } else {
        console.log (" files with ${extension} extension:"
        txtfiles. forEach (file => console.log (file));
    }
});
```

OUTPUT.

files with . txt extension
a. _. txt
b. _. txt

Implement a simple node.js program that makes an HTTP GET request and logs the response.

```
const http = require("http");
const url = "http://jsonplaceholder.typicode.com/posts/1"

http.get(url, (res) => {
    let data = "";

res.on("data", (chunk) => {
    data += chunk;
});

res.on("end", () => {
    console.log("Response received:");
    console.log(data);
});

}).on("error", (err) => {
    console.error("Error:", err.message);
});
```