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:**	WC

Name of Student:	Dhanashree Gawai
Roll No. :	21
Assignment No.:	04
Title of Assignment:	Using Node.js develop back-end application
Date of Submission:	29/08/2025
Date of Correction:	29/08/2025

Evaluation

Performance Indicator	Max. Marks	Marks Obtained
Completeness	5	3
Demonstrated Knowledge	3	3
Legibility	2	2
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 :

Signature : Bharat

Date

Implement a Node.js program that calculates the & prints the sum of numbers from 1 to 10

```
let sum = 0;
for (let i = 1; i <= 10; i++)
  {
    sum += i;
  }
console.log("The sum of numbers from 1 to 10 is: ",
            sum);
```

output :

The sum of numbers from 1 to 10 is : 55.

2) Implement a Node.js program that reads a list of filenames from a directory, filters them to find files with a specific extension (e.g. '.txt') and prints the names of these files.

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

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

```
const txtFiles = files.filter(file => path.extname(f
.toLowerCase() === extension);
  if (txtFiles.length > 0)
    {
  console.log(`files with ${extension} extension:
        );
  txtFiles.forEach(file => console.log(file));
    }
      else
    {
  console.log(`no files with ${extension} extension
        found.`);
    }
  });
```

output:

Files with .txt extension:

notes.txt

data.txt

report.txt

Implement a simple Node.js program that makes an HTTP GET request to a URL and logs the response to the console. You can use the 'http' or 'axios' module for this task

→ Version 1: Using Node's built-in http module.

```
const http = require ("http");
const url = "http://www.example.com";
    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);
});
```

version 2 : using axios.

```
const axios = require("axios");
const url = "http://example.com";
axios.get(url)
  .then(response => {
    console.log("Response received:");
    console.log(response.data);
  })
  .catch(error => {
    console.error("error:", error.message);
  });
```