



Vidyavardhini's College of Engineering and Technology

Department of Artificial Intelligence & Data Science

AY: 2025-26

Class:	TE-AIDS	Semester:	V
Course Code:	CSC502	Course Name:	WC

Name of Student:	Dinuya P. Davane
Roll No. :	413
Assignment No.:	4
Title of Assignment:	Using NodeJS develop backend applic ⁿ
Date of Submission:	
Date of Correction:	

Evaluation

Performance Indicator	Max. Marks	Marks Obtained
Completeness	5	4
Demonstrated Knowledge	3	3
Legibility	2	2
Total	10	9

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

Checked by

Name of Faculty :

Signature : Bhavar

Date :

NAME: _____

STD.: _____

DIV.: _____

Q.1. Implement a Node.js program that calculates 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);
```

Run the program: `node sum.js`

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

Q.2. Implement a Node.js program that reads a list of filenames from a directory, filters them to find files with a specific extension and prints the names of those files.

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

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



```
const filteredFiles = files.filter(file => path  
(file).toLowerCase() === extension);  
console.log('Files with '$extension' extension:');  
filteredFiles.forEach(file => console.log(file));  
}  
);
```

Run the program: `node filterFiles.js`

Output: Files with '.txt' extension:

note1.txt

readme.txt

data.txt

Q.3. 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.

To run install axios: `npm run install axios`

```
const axios = require('axios');  
const url = 'https://jsonplaceholder.typicode.com/  
posts/1';
```

```
axios.get(url)
```

```
  .then(response => {  
    console.log('Response:', response.data);  
  })  
  .catch(error => {  
    console.log error('Error:', error.message);  
  });
```