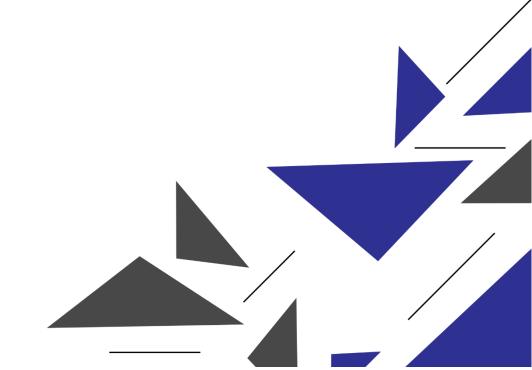


# **CSI3023**

Advanced Server -Side Programming

Winter Semester 2023 - '24

Digital Assignment - 6



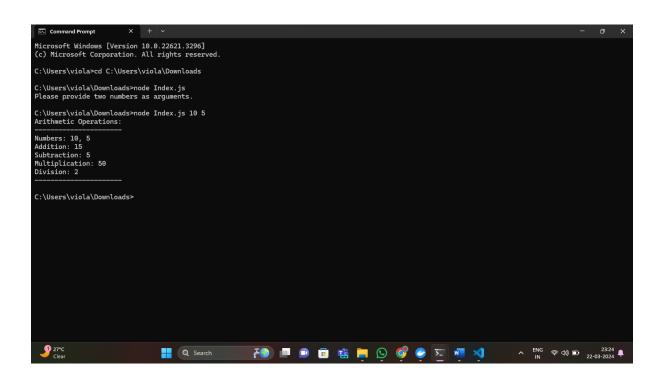
SARAGA S 20MIC0081

#### CODE:

```
// Import the events module
var events = require('events');
// Create an eventEmitter object
var eventEmitter = new events.EventEmitter();
// Function to perform arithmetic operations
var arithmeticOperations = function (num1, num2) {
console.log('Arithmetic Operations:');
console.log('-----');
console.log('Numbers: ' + num1 + ', ' + num2);
console.log('Addition: ' + (num1 + num2));
console.log('Subtraction: ' + (num1 - num2));
console.log('Multiplication: ' + (num1 * num2));
console.log('Division: ' + (num1 / num2));
console.log('----');
// Bind the arithmeticOperations function with the event
eventEmitter.on('arithmetic', arithmeticOperations);
// Check if the required command line arguments are provided
if (process.argv.length < 4) {</pre>
console.error('Please provide two numbers as arguments.');
process.exit(1);
// Parse the command line arguments to numbers
var num1 = parseFloat(process.argv[2]);
var num2 = parseFloat(process.argv[3]);
// Emit the event with the parsed numbers
eventEmitter.emit('arithmetic', num1, num2);
// Remove the event listener
eventEmitter.removeListener('arithmetic', arithmeticOperations);
```

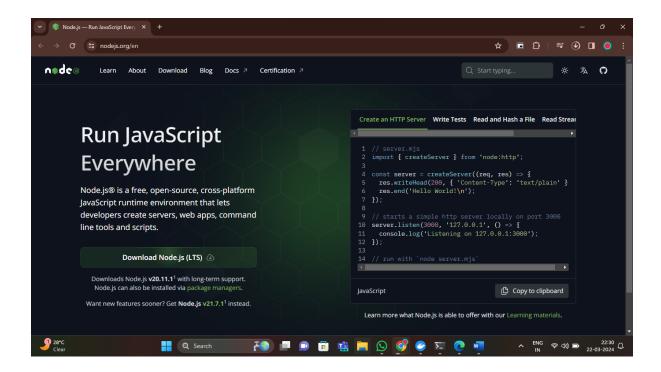
```
| Search | S
```

### **Output:**

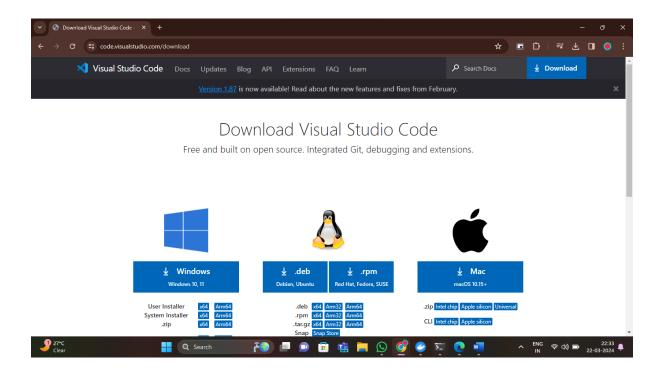


# Create and Deploy a Web application on Azure platform.

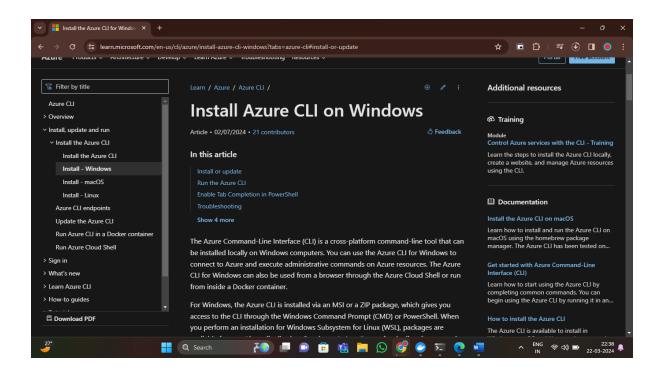
Step – 1: Install Node.js from <a href="https://nodejs.org/en">https://nodejs.org/en</a>



Step - 2: Install visual studio code from https://code.visualstudio.com/download



Step – 3: Install Azure from <a href="https://learn.microsoft.com/en-us/cli/azure/install-azure-cli-windows?tabs=azure-cli#install-or-update">https://learn.microsoft.com/en-us/cli/azure/install-azure-cli-windows?tabs=azure-cli#install-or-update</a>



# Code:

```
mkdir mywebapp

cd mywebapp

npm init -y

npm install express

const express = require('express');

const app = express();

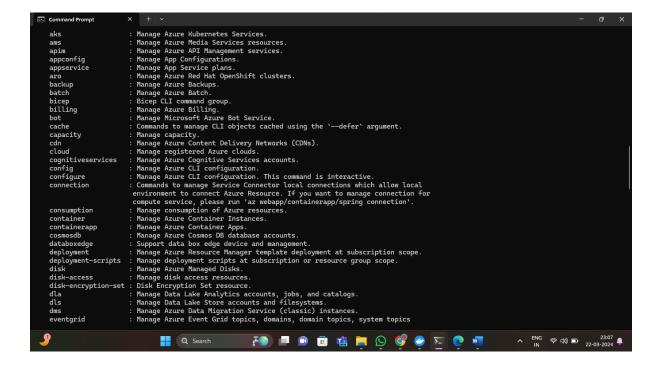
app.get('/', (req, res) => {
    res.send('Hello, Azure! This is my web application deployed on Azure App Service.');
});

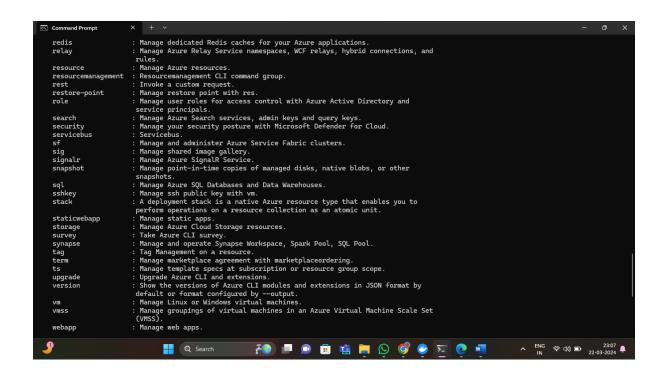
const port = process.env.PORT || 3000;

app.listen(port, () => {
    console.log(`Server running on port ${port}`);
```

```
run 'npm fund' for details
     found 0 vulnerabilities
  round 0 vulnerabilities npm notice New minor version of npm available! 10.2.4 -> 10.5.0 npm notice Changelog: https://github.com/npm/cli/releases/tag/v10.5.0 npm notice Run npm install -g npm@10.5.0 to update! npm notice
  C:\Users\viola\mywebapp>echo. > app.js
 C:\Users\viola\mywebapp>echo const express = require('express'); >> app.js
  C:\Users\viola\mywebapp>echo const app = express(); >> app.js
  C:\Users\viola\mywebapp>echo. >> app.js
 C:\Users\viola\mywebapp>echo app.get('/', (req, res) => { >> app.js}
C:\Users\viola\mywebapp>echo res.send('Hello, Azure! This is my web application deployed on Azure App Service.'); >> app.js
 C:\Users\viola\mywebapp>echo }); >> app.js
  C:\Users\viola\mywebapp>echo. >> app.js
C:\Users\viola\mywebapp>echo const port = process.env.PORT || 3000; >> app.js
const port = process.env.PORT
 C:\space{0.15cm} C:\s
 C:\Users\viola\mywebapp>echo console.log('Server running on port ${port}'); >> app.js
  C:\Users\viola\mywebapp>echo }); >> app.js
  C:\Users\viola\mywebapp>az
                                                                                                                                                                                                                                                                                   [ 23.06 No. 10 
                                                                                                                                                                Q Search
```

```
C:\Users\viola\mywebapp>echo }): >> app.is
C:\Users\viola\mywebapp>echo. >> app.js
C:\Users\viola\mywebapp>echo const port = process.env.PORT || 3000; >> app.js
const port = process.env.PORT
C:\Users\viola\mywebapp>echo app.listen(port, () => { >> app.js
C:\Users\viola\mywebapp>echo console.log('Server running on port ${port}'); >> app.js
C:\Users\viola\mywebapp>echo }); >> app.js
C:\Users\viola\mvwebapp>az
Welcome to the cool new Azure CLI!
Use `az --version` to display the current version. Here are the base commands:
                                : Manage Azure subscription information.
: Manage private registries with Azure Container Registries.
: Manage Azure Active Directory Graph entities needed for Role Based Access Control.
: Manage Azure Advisor.
: Manage Azure Front Door Standard/Premium.
: Manage Azure Kubernetes Services.
: Manage Azure Kubernetes Services.
     ad
     advisor
afd
     aks
     ams
   9
                                                                        Q Search
```





##Azure is Paid subscription so can't proceed anymore.

