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Aim: Install Express

**THEORY:** Express JS: Express is a fast, assertive, essential and moderate web framework of Node.js. You can assume express as a layer built on the top of the Node.js that helps manage a server and routes. It provides a robust set of features to develop web and mobile applications. Some core features of Express framework: It can be used to design single-page, multi-page and hybrid web applications. It allows to setup middle wares to respond to HTTP Requests. It defines a routing table which is used to perform different actions based on HTTP method and URL. It allows to dynamically render HTML Pages based on passing arguments to templates. Installation process of Express JS: Open a new terminal in VS Code In the command line type the following command: npm install express Hence express JS framework is installed in your respected systems

## **INSTALLATION OF EXPRESS:**

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19045.3448]
(c) Microsoft Corporation. All rights reserved.
C:\WINDOWS\system32>mkDIR ExpressProject
 :\WINDOWS\system32>cd ExpressProject
C:\Windows\System32\ExpressProject>npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.
See `npm help init` for definitive documentation on these fields and exactly what they do.
Jse `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.
Press ^C at any time to quit.
package name: (expressproject) entry point: (index.js)
Sorry, name can only contain URL-friendly characters and name can no longer contain special characters ("~'!()*").
package name: (expressproject) tanuja
version: (1.0.0)
description:
entry point: (index.js)
test command: npm install express
git repository:
```

## Administrator: Command Prompt

```
test command: npm install express
git repository:
keywords:
author:
license: (ISC)
About to write to C:\Windows\System32\ExpressProject\package.json:
 "name": "tanuja",
 "version": "1.0.0"
 "description": "",
 "main": "index.js",
 "scripts": {
   "test": "npm install express"
 "author": "",
 "license": "ISC"
Is this OK? (yes) yes
:\Windows\System32\ExpressProject>npm install express
added 58 packages, and audited 59 packages in 6s
 packages are looking for funding
 run `npm fund` for details
```

## **CODE:**

```
const express = require('express');
const app = express();
const port = 3000;  // Set the port for the server

// Define a route to handle the root URL
app.get('/', (req, res) => {
   res.send('Hello, World!');
});

// Start the server and listen on the specified port
app.listen(port, () => {
   console.log(`Server is running at http://localhost:${port}`);
});
```

## **OUTPUT:**

```
requireStack: [ 'C:\\Users\\exam\\Desktop\\121A3062\\exp12.js' ]
}

Node.js v18.17.1
PS C:\Users\exam\Desktop\\121A3062> npm i express

added 58 packages in 2s

8 packages are looking for funding
   run `npm fund` for details
PS C:\Users\exam\Desktop\\121A3062> node exp12.js
Server is running at http://localhost:3000
```

Hello, World!

Conclusion: Hence we have successfully installed express.