

Which command is used to initialize a new Git repository?

Ans: git init.

Which of the following are benefits of cloud integration? (Select all that apply)

Ans: Cost efficiency, Scalability.

The command git _____ uploads changes to a remote repository.

Ans: git push.

Which of the following are features of Visual Studio Code (VSCode)? (Select all that apply)

Ans: Extensions marketplace, Built-in terminal, Debugging tools.

Integrative Programming and Technologies focuses on connecting disparate systems, _____, and platforms.

Ans: applications.

The following code snippet declares a _____ in JavaScript: const name = "John";

Ans: constant variable.

Which of the following is a protocol used for real-time communication between systems?

Ans: WebSocket.

What does the command git add . do?

Ans: Stages all changes in the working directory.

The command git _____ saves changes to the local repository.

Ans: git commit.

The process of combining separate applications into a single system is called ____-.

Ans: Integration or System Integration.

The command git _____ downloads changes from a remote repository.

Ans: git pull.

What is the primary purpose of version control?

Ans: To track changes in code.

_____ is a framework for building web applications in Node.js.

Ans: Express.js.

GitHub is a cloud-based platform for hosting Git repositories.

Ans: True.

_____ APIs are commonly used for communication between systems.

Ans: RESTful APIs.

The command git _____ is used to initialize a new Git repository.

Ans: git init.

Cloud integration allows applications to be deployed on platforms like AWS, Azure and Google _____.

Ans: Cloud.

Which of the following is a key objective of Integrative Programming and Technologies?

Ans: Connecting disparate systems.

Which of the following are examples of middleware? (Select all that apply).

Ans: Kafka, Express.js, and RabbitMQ.

Which of the following are commonly used in RESTful APIs? (Select all that apply).

Ans: POST, PUT, GET, and DELETE.

Which of the following are tools used for version control? (Select all that apply).

Ans: Git and GitHub.

Version control systems like _____ help track changes in code.

Ans: Git.

Visual Studio Code (VSCode) is not a suitable IDE for JavaScript development.

Ans: False.

_____ acts as a bridge between different software systems.

Ans: Middleware.

Which of the following is a feature of Visual Studio Code (VSCode)?

Ans: Built-in Git support.

Which of the following is an example of a cloud platform?

Ans: AWS.

Which of the following are Git commands? (Select all that apply)

Ans: git commit, git push, and git pull.

Which of the following is used to define a function in JavaScript?

Ans: function.

The following code snippet logs _____ to the console: `console.log(2 + 2);`

Ans: 4.

_____ is a protocol used for real-time communication between systems.

Ans: WebSocket.

Version control is only useful for large teams, not individual developers.

Ans: False.

Cloud integration is not relevant in modern software development.

Ans: False.

RESTful APIs are not commonly used in modern software development.

Ans: False.

The following code snippet creates an _____ in JavaScript: `let fruits = ["Apple", "Banana", "Orange"];`

Ans: array.

Which of the following are JavaScript data types? (Select all that apply)

Ans: Boolean, Number, and String.

Which technology is commonly used for building RESTful APIs?

Ans: Node.js.

Git is a version control system used to track changes in code.

Ans: True.

The command `git push` uploads changes from your local repository to a remote repository.

Ans: True.

Which of the following are JavaScript array methods? (Select all that apply)

Ans: `unshift`, `shift`, `pop`, and `push`.

Middleware acts as a bridge between different software systems.

Ans: True.

_____ is a tool used for automating the deployment of applications.

Ans: Jenkins.

The following code snippet creates a _____ in JavaScript:

```
function greet(name) {return Hello, ${name}!;}
```

Ans: function.

Which of the following are components of a microservices architecture? (Select all that apply)

Ans: API gateways and Independent services.

The command `git init` is used to clone a remote repository.

Ans: False.

Which of the following are valid ways to declare a variable in JavaScript? (Select all that apply)

Ans: `const`, `var`, and `let`.

Which of the following is a JavaScript data type?

Ans: String

In JavaScript, the _____ keyword is used to declare a variable.

Ans: `const`, `var`, and `let`.

_____ focuses on the techniques, tools, and methodologies used to connect disparate systems, applications, and platforms.

Ans: Integrative Programming and Technologies.

Integrative Programming and Technologies focuses on connecting disparate systems, applications, and platforms.

Ans: True.

The command `git _____` stages changes for commit.

Ans: `git add`.

Which method in Express.js is used to handle GET requests?

Ans: `app.get()`.

The _____ middleware in Express.js is used to parse JSON request bodies.

Ans: `express.json()`.

Which of the following are valid commands in Node.js? (Select all that apply)

Ans: `npm install`, `npm run`, `npm start`, and `npm init`.

The _____ method in Express.js is used to handle POST requests.

Ans: `app.post()`.

Node.js uses a multi-threaded model to handle multiple connections.

Ans: False.

Which command is used to initialize a new Node.js project?

Ans: `npm init`.

What is the default port for an Express.js server?

Ans: 3000.

Middleware in Express.js is used to handle errors and log requests.

Ans: True.

The following code snippet installs _____ :`npm install express`

Ans: `Express.js`.

Which method is used to start the Express.js server?

Ans: `app.listen()`.

Multiple Answers: Which of the following are features of Node.js? (Select all that apply)

Ans: Non-blocking I/O, Event-driven architecture, and Built on the V8 engine.

The

(response not displayed)

method in Express.js is used to start the server.

Ans: `app.listen()`.

The following code snippet logs incoming _____ : `app.use((req, res, next) => {console.log(`${req.method} ${req.url}`); next();});`

Ans: requests.

The following code snippet starts an Express.js server on port _____ : `app.listen(3000, () => {console.log('Server running on port 3000');});`

Ans: 3000.

Which of the following are valid ways to parse JSON request bodies in Express.js? (Select all that apply)

Ans: `app.use(express.urlencoded())` and `app.use(express.json())`.

Node.js allows you to run JavaScript on the server side.

Ans: True.

What is the purpose of the `app.use()` method in Express.js?

Ans: To add middleware.

The following code snippet serves _____ files: `app.use(express.static('public'));`

Ans: static.

What does the `app.post()` method in Express.js do?

Ans: Handles POST requests.

The `app.get()` method in Express.js is used to handle GET requests.

Ans: True.

Which of the following are valid ways to define a route in Express.js? (Select all that apply).

Ans: `app.get('/about', (req, res) => { ... })` ,

`app.post('/about', (req, res) => { ... })` ,

`app.get('/submit', (req, res) => { ... })` ,

and `app.post('/submit', (req, res) => { ... })`.

The following code snippet handles a _____ request: `app.post('/submit', (req, res) => { const data = req.body; res.send('Received: ${JSON.stringify(data)}'); });`

Ans: POST.

Which of the following are valid ways to serve static files in Express.js? (Select all that apply).

Ans: `app.use(express.static('public'))` and `express.static('public')`.

What does the `express.json()` middleware do?

Ans: Parses JSON request bodies.

Node.js is built on the V8 JavaScript engine.

Ans: True.

The `express.json()` middleware is used to parse JSON request bodies.

Ans: True.

The following code snippet handles _____ : `app.use((err, req, res, next) => { console.error(err.stack); res.status(500).send('Something broke!'); });`

Ans: Errors.

Which of the following are valid ways to handle errors in Express.js? (Select all that apply)

Ans: `app.use((err, req, res, next) => { ... })`.

Which of the following are valid HTTP methods? (Select all that apply)

Ans: DELETE, PUT, POST, and GET.

The _____ method in Express.js is used to handle errors.

Ans: `app.use()`.

The following code snippet parses _____ request bodies: `app.use(express.json());`

Ans: JSON request bodies.

Which of the following is a feature of Node.js?

Ans: Event-driven architecture.

Which of the following are true about Express.js? (Select all that apply)

Ans: It is a web application framework for Node.js and It simplifies the process of building web applications.

The _____ command is used to initialize a new Node.js project.

Ans: npm init.

The npm init command is used to install Express.js.

Ans: False.

Which of the following are middleware functions in Express.js? (Select all that apply)

Ans: express.json() and express.static().

The app.listen() method is used to start the Express.js server.

Ans: True.

The following code snippet initializes a new _____ project: npm init -y

Ans: Node.js.

The _____ method in Express.js is used to serve static files.

Ans: express.static().

The app.use() method in Express.js is used to serve static files.

Ans: True.

Which command is used to install Express.js?

Ans: npm install express.

The following code snippet handles a _____ request: app.get('/about', (req, res) => {res.send('About Us'); });

Ans: GET.

The following code snippet serves static files from the _____ folder:
app.use(express.static('public'));

Ans: public.

Express.js is a web application framework for Node.js.

Ans: True.

What is Node.js?

Ans: A JavaScript runtime environment.

Node.js is built on the _____ JavaScript engine.

Ans: V8.

Which of the following are methods in Express.js? (Select all that apply)

Ans: `app.post()`, `app.listen()`, `app.use()`, and `app.get()`.

The _____ method in Express.js is used to handle GET requests.

Ans: `app.get()`.

The _____ command is used to install Express.js.

Ans: `npm install express`.

The _____ method in Express.js is used to add middleware.

Ans: `app.use()`.