For each question, research/experiment the question, and answer each question in the box below *in your own words*.

1. What is ES6? How does it relate to NodeJS?

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1. What is the difference between using JavaScript in a Web Browser and in NodeJS?

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1. What is something you can do with JavaScript in a Web Browser that you cannot do in NodeJS?

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1. What is something you can do with JavaScript in NodeJS that you cannot do in a Web Browser?

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1. How would Web Browsers and Nodejs work together?

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1. What is something you did in the JS Browser Calculator that cannot be done in NodeJS alone?

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Circle the correct answer for each of the following questions.

1. Which of the following is not a language itself, but a specific version of a language that standardized features released in 2015?

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| Javascript | ES6 | NodeJS | Java |

1. Which of the following is a general-purpose programming language primarily used for building web pages and runs natively in browsers?

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| Javascript | ES6 | NodeJS | Java |

1. Which of the following is a statically-typed, class-based language that compiles into bytecode and runs on the JVM?

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| Javascript | ES6 | NodeJS | Java |

1. Which of the following is a server-side runtime environment that allows execution of JavaScript code outside a browser?

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| Javascript | ES6 | NodeJS | Java |

1. Which of the following is single-threaded and event-driven, using a non-blocking I/O model for handling requests?

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| Javascript | ES6 | NodeJS | Java |

1. Which of the following requires code to be compiled before execution, instead of being interpreted directly by a browser?

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| Javascript | ES6 | NodeJS | Java |

1. Which of the following is most commonly associated with the document and window objects?

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| Javascript | ES6 | NodeJS | Java |

1. Which of the following is often used for building backend APIs with frameworks like Express.js?

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| Javascript | ES6 | NodeJS | Java |

1. Which of the following is primarily used for client-side scripting?

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| Javascript | ES6 | NodeJS | Java |

1. Which of the following can be used to create scalable backend servers and handle thousands of simultaneous connections efficiently?

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| --- | --- | --- | --- |
| Javascript | ES6 | NodeJS | Java |