1.Five difference between browser JS and node JS

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| --- | --- |
| Browser.js is mainly used for client-side applications like validations on a web page or dynamic page display and as the name suggests it gets executed in the browser | Node.js javascript code gets executed outside the browser as it is an interpreter as well as an environment for running javascript and used for server-side applications |
| Browser.js is used for frontend applications | Node.js is used for backend applications |
| Browser.js is sandboxed for the safety purposes and have access limited to the browser | Node.js has full system access i.e can read and write directly to the file system like any other application that also concludes that we can write complete software using Node.js |
| Browser.js runs any engine like Spider monkey (Firefox), JavaScript Core (Safari), V8 (Google Chrome) accordingly to the browser | Node.js runs in a V8 engine which is mainly used by google chrome. |
| Bowsers are not headless | Node.js is headless i.e without any GUI |

2.summary

🡪parsing HTML

1.parsing isn’t straight forward and can be halted

2.it will do speculative parsing and it’s reentrant

🡪Tokenizer

🡪parsing flow

🡪parse tree and dom tree

🡪script tag at bottom-parse interrupted and faster to render

4. Execute the below code and write your description in txt file

a. Number

b. Number

c. String

d. Boolean

e. Object

f. Undefined

g. object

h. object

i. Number