

- ① JavaScript is used by programmers across the world to create dynamic and interactive web content like application and browsers.

JavaScript is so popular that it is most used programming language.

It allows you to make web pages interactive

② Client side

- (i) Frontend
- (ii) Collect user input
- (iii) It deals with visual and user input aspects.
- (iv) Restricted to run in a sandbox

Server side

- Backend
- Processes user input
- deal with transaction and complex computations
- Processes are transparent to the users.

- ③ Node Js is an open source, cross platform, back end JavaScript Runtime environment that runs on a JavaScript Engine and execute code outside a web browser.

④ 3 scopes in JavaScript —

- (i) Block scope - It restrict the variable that is declared inside a specific block, from access by the outside of a block.
- (ii) Function scope - Each func create new scope. Variable defined inside a func are not accessible from outside the func.
- (iii) Global scope - The context where every thing in JavaScript program execute by default.
It includes all variable, object, references that are not contained within a customized scope.

⑤ Javascript is synchronous, blocking single threaded language.

⑥ single threaded language.

⑦ Document object Model is language independent interface that treat an XML or HTML doc as tree structure wherein each node is an object representing a part of document.