1.List 5 difference between Browser JS(console) v Nodejs

Solution

**Javascript**

* Javascript is a programming language that is used for writing scripts on the website.
* Javascript can only be run in the browsers.
* It is basically used on the client-side.
* Javascript can run in any browser engine as like JS core in safari and Spidermonkey in Firefox.
* Javascript is used in frontend development.

**NodeJS**

* NodeJS is a Javascript runtime environment.
* NodeJS code can be run outside the browser.
* It is mostly used on the server-side.
* Nodejs can only run in V8 engine of google chrome.
* Nodejs is used in server-side development.

2.watch & summary 5 points -<https://www.youtube.com/watch?v=SmE4OwHztCc&ab_channel=JSConf>

Solution

* We can communicate to the system through browser. There are different components in a browser
* Parsing- HTML parsing and CSS parsing.
* HTML contains different tags <p> <div> <span>… Some tags have a start and end.
* CSS parsing – It will create CSS object model .
* Combination of DOM and CSSOM is the actual visual on the screen.
* Layout- Arrange all elements in a webpage.
* Paint- It takes all the information from the render tree and gives the visual output.

3. To read -<https://stackoverflow.com/questions/5641997/is-it-necessary-to-write-head-body-and-html-tags>

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

* 1. typeof(1)
  2. typeof(1.1)
  3. typeof('1.1')
  4. typeof(true)
  5. typeof(null)
  6. typeof(undefined)
  7. typeof([])
  8. typeof({})
  9. typeof(NaN)

solution

a.number

b.number

c.string

d.boolean

e.object

f.undefined

g.object

h.object

i.number

5. Read what is prototype

Solution

The prototype is an object that is associated with every functions and objects by default in JavaScript, where function's prototype property is accessible and modifiable and object's prototype property is not visible.