Java script Assignment Question

Q.1 What are the different data types present in java script?

Ans- java script is a Programming language. Every programming language have a different type of datatypes

1. String  
2. Number  
3. BIGINT  
4. Boolean  
5. Undefined  
6. Null  
7. Symbol  
8. Object

The Object Datatype

The object data type can contain:

1. An object  
2. An array  
3. A date

### Q2. What are the JavaScript Engines?

A **JavaScript engine** is a Software Components that execute JS code. The first JS engine is  [interpreters](https://en.wikipedia.org/wiki/Interpreter_(computing)), but all relevant modern engines use [just-in-time compilation](https://en.wikipedia.org/wiki/Just-in-time_compilation) for improved performance.

JavaScript engines are typically developed by [web browser](https://en.wikipedia.org/wiki/Web_browser) vendors, and every major browser has one. In a browser, the JavaScript engine runs in concert with the [rendering engine](https://en.wikipedia.org/wiki/Browser_engine) via the [Document Object Model](https://en.wikipedia.org/wiki/Document_Object_Model).

The use of JavaScript engines is not limited to browsers. For example, the [V8 engine](https://en.wikipedia.org/wiki/V8_(JavaScript_engine)) is a core component of the [Node.js](https://en.wikipedia.org/wiki/Node.js) and DENO runtime.

Q3. Why We use JavaScript?

JavaScript is a scripting language used to develop web pages. Developed in Netscape, JS allows developers to create a dynamic and interactive web page to interact with visitors and execute complex actions. It also enables users to load content into a document without reloading the entire page

### Q4. What is JavaScript? And also Explain the History of JavaScript?

JavaScript is a light-weight object-oriented programming language that is used by several websites for scripting the webpages. It is an interpreted, programming language. JavaScript enables dynamic interactivity on websites when it is applied to an HTML document.

JS helps the users to build modern web applications to interact directly without reloading the page every time. JavaScript is commonly used to dynamically modify [HTML](https://www.javatpoint.com/html-tutorial) and [CSS](https://www.javatpoint.com/css-tutorial)  files.

### History of JS

Java Script was invented by Brendan Eich in 1995. It was developed for Netscape2 and become ECMA-262 standard in 1997.

### Q5. What is DOM in java Script?

Document Object Module (DOM) is a programming interface for web documents.it represents the page so that programs can change the document structure, style and content. The DOM represents the document as nodes and object; that way programming languages can interact with the page.

Java script code written in JS file but uses. The DOM to access the document and its elements. The DOM is not a programming language but without it, JS language wouldn’t have any model or notion of the web pages.

Note- The DOM is not a part of JS but is instead a web API used to build websites.