**TASK : 2**

**Q.no :1) write a blog on the difference between documents and window objects in javascript**

**What is a JavaScript window?**

The window is at a root/top level at the JavaScript object hierarchy. It  is a global/root object in JavaScript and it is the root object of the Document object model(DOM);

**Syntax:**

* **window object:**

|  |
| --- |
| window.propertyname |

**What is a JavaScript document?**

A document is an object inside the window object and we use a document object for manipulation inside the document**.**

* **document object:**

|  |
| --- |
| document.propertyname  // OR  window.document.propertyname |

| **Property/Aspect** | **document Object** | **window Object** |
| --- | --- | --- |
| **Purpose** | Represents the web page's | Represents the browser window |
|  | DOM (Document Object Model) | and its global environment |
| **Scope** | Limited to the current | Global scope, accessible |
|  | document within the browser | throughout the web page |
| **Access** | Typically accessed using | Automatically available in |
|  | **document** or **getElementById** | JavaScript without explicit |
|  | methods | declaration |
| **Hierarchy** | Part of the DOM structure, | Not part of the DOM structure, |
|  | nested within the **window** | serves as the top-level |
|  | object | JavaScript object |
| **Methods** | Provides methods for | Provides methods related to |
|  | manipulating the DOM, such | browser control, window |
|  | as **getElementById**, | handling, and events, such as |
|  | **createElement**, and more | **open**, **close**, and **alert** |
| **Events** | Listens for DOM-specific | Listens for global browser |
|  | events (e.g., **click**, | events (e.g., **resize**, |
|  | **submit**, **DOMContentLoaded**) | **load**, **beforeunload**) |
| **Location Information** | Does not provide information | Provides information about |
|  | about the browser's location | the current browser location |
| **Navigation** | Cannot control the browser's | Can control the browser's |
|  | navigation or open new tabs | navigation, open new windows, |
|  | directly | and manipulate history |
| **Visibility State** | Does not track the visibility | Can track the visibility |
|  | state of the browser window | state of the browser window |
| **Child Objects** | Contains objects representing | Contains objects representing |
|  | elements within the document | various aspects of the window |
| **Example Usage** | ```javascript | ```javascript |
|  | const element = | const windowHeight = |
|  | document.getElementById('my- | window.innerHeight; |
|  | element'); | window.alert('Hello, World!'); |
|  | element.textContent = 'New | window.location.href = |
|  | Content'; | '[https://example.com](https://example.com/)'; |
|  | ``` | ``` |

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