**Question 1**

By how many ways we can access elements in the DOM and write about them in brief?

Answer1

We can access elements in the DOM by the following methods:

1. Finding HTML elements by id

The easiest way to find an HTML element in the DOM, is by using the element id. This example finds the element with id="intro":

Example:

var myElement = document.getElementById("intro");

1. Finding HTML elements by tag name

This example finds all <h1> elements:

Example:

### var x = document.getElementsByTagName("h1");

1. Finding HTML elements by class name

If you want to find all HTML elements with the same class name, use getElementsByClassName().

This example returns a list of all elements with class="intro".

Example:

### var x = document.getElementsByClassName("intro");

1. Finding HTML elements by CSS selectors

If you want to find all HTML elements that match a specified CSS selector (id, class names, types, attributes, values of attributes, etc), use the querySelectorAll() method.

This example returns a list of all <p> elements with class="intro".

### Example:

### var x = document.querySelectorAll("p.intro");

1. Finding HTML elements by HTML object collections

This example finds the form element with id="frm1", in the forms collection, and displays all element values:

### Example:

### var x = document.forms["frm1"]; var text = ""; var i; for (i = 0; i < x.length; i++) {   text += x.elements[i].value + "<br>"; } document.getElementById("demo").innerHTML = text;