**Assignment 4**

**Question 1**

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

**Ans.**

* Finding HTML elements by id
* Finding HTML elements by tag name
* Finding HTML elements by class name
* Finding HTML elements by CSS selectors
* Finding HTML elements by HTML object collections

**Finding HTML Element 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");

If the element is found, the method will return the element as an object (in myElement).

If the element is not found, myElement will contain null.

**Finding HTML Elements by Tag Name**

This example finds all <p> elements:

Example:

var x = document.getElementsByTagName("p");

This example finds the element with id="main", and then finds all <p> elements inside "main":

Example:

var x = document.getElementById("main");  
var y = x.getElementsByTagName("p");

**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".

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

**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".

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

**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:

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;

**Question 2**

**Write a javascript program that will take 2 numbers from the HTML page and display them on the HTML page after the addition of those 2 numbers.**

**Ans.**

**Code:**

<!doctype html>

<html>

<head>

<title>Addition</title>

</head>

<body>

Enter the First number : <input id="first"><br>

Enter the Second number: <input id="second"><br>

<button onclick="add()">Add</button>

<input id="answer">

<script type="text/javascript">

function add(){

var a,b,c;

a=Number(document.getElementById("first").value);

b=Number(document.getElementById("second").value);

c= a + b;

document.getElementById("answer").value= c;

}

</script>

</body>

</html>

**Output:**

