# JavaScript Exercises

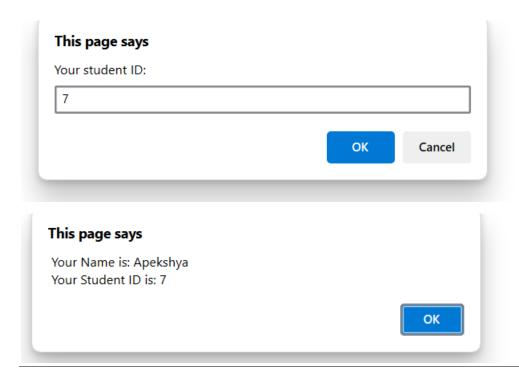
1. Write a program in Javascript to create variables to store numeric, float, string and Boolean values and show them in page with document.write() function.

```
🗘 q. no.1.html 🗦 ...
      <!DOCTYPE html>
      <html lang="en">
          <meta charset="UTF-8">
          <meta name="viewport" content="width=device-width, initial-scale=1.0">
          <title> Creation of Variables </title>
      </head>
          <script>
              var numeric = 4;
              var float = 7.08;
              var string = "Apekshya";
              var boolean = True;
              //using function document.write()
              document.write("Numeric Value: " + numeric+ "<br>");
              document.write("Float Value: " + float + "<br>");
              document.write("String Value: " + string + "<br>");
              document.write("Boolean Value: " + boolean + "<br>");
          </script>
      </body>
      </html>
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```

# Output:

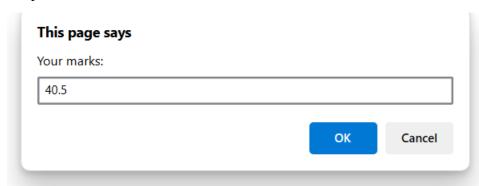
Numeric Value: 4 Float Value: 7.08 String Value: Apekshya Boolean Value: true 2. Write a program to input two data values for Your Name and Student Id in prompt dialog boxes and show them in alert dialog box.



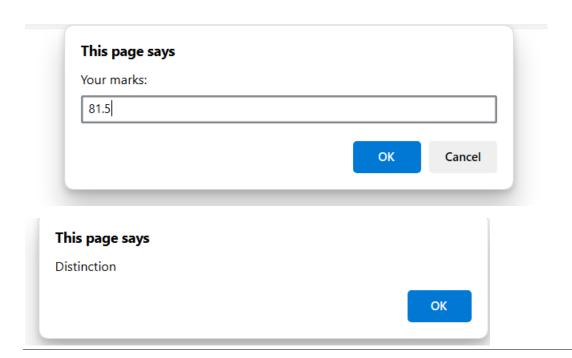


- 3. WAP to show the use if .... Else if .... else for following conditions:
- a. For marks  $\geq$  = 80 and marks  $\leq$ =100, show Distinction
- b. For marks >=60 and marks < 80, show First Division
- c. For marks >=50 and marks < 60, show Second Division
- d. For marks >=40 and marks <50, show Third Division
- e. For marks < 40, show Fail

```
<!DOCTYPE html>
     <html lang="en">
         <meta charset="UTF-8">
         <meta name="viewport" content="width=device-width, initial-scale=1.0">
         <title>Marks division</title>
     </head>
         <script>
        var marks = prompt("Your marks:", "0");
     if (marks >= 80 && marks <= 100) {
         alert("Distinction");
      } else if (marks >= 60 && marks < 80) {
         alert("First Division");
      } else if (marks >= 50 && marks < 60) {
         alert("Second Division");
      } else if (marks >= 40 && marks < 50) {
         alert("Third Division");
      } else if (marks < 40) {
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         alert("Fail");
      } else {
         alert("Invalid !");
        </script>
     </body>
```





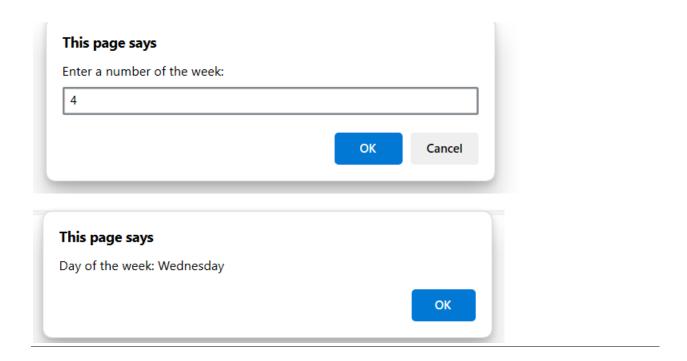


- 4. WAP to get number input with prompt dialog dox and show the Day using switch case
- a. For Case 1, show Sunday
- b. For Case 2, show Monday
- c. For Case 3, show Tuesday
- d. For Case 4, show Wednesday
- e. For Case 5, show Thursday
- f. For Case 6, show Friday
- g. For Case 7, show Saturday
- h. For default, show Invalid

```
    q. no.4.html >  html >  body >  script

            <title>Weekdays</title>
        </head>
                <script>
                    //input a number of the week
                    var userInput = prompt("Enter a number of the week:");
                    var dayNumber = parseInt(userInput);
                    var day;
                    switch (dayNumber) {
                 case 1:
                day = "Sunday";
                break;
                case 2:
                day = "Monday";
                break;
                case 3:
                day = "Tuesday";
                break;
                case 4:
                day = "Wednesday";
                break;
                case 5:
  24
                day = "Thursday";
                break:
                case 6:
                day = "Friday";
                break;
                case 7:
                day = "Saturday";
                break:
                default:
                day = "Invalid";
        alert("Day of the week: " + day);
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        </script>
```

```
37 | </script>
38 </body>
39 </html>
```



5. WAP in javascript using for loop to display 4 images with image name as 1.jpg, 2.jpg, 3.jpg and 4.jpg.



6. WAP to display multiplication number of 5 as follows:

```
5 * 1 = 5

5 * 2 = 10

5 * 3 = 15

5 * 4 = 20

5 * 5 = 25

5 * 6 = 30

5 * 7 = 35

5 * 8 = 40

5 * 9 = 45

5 * 10 = 50
```

7. WAP in javascript using loop to display following table layout and with alternate background color on data rows

```
\Diamond q. no.7.html \Diamond \Diamond html \Diamond \Diamond body \Diamond \Diamond table \Diamond \Diamond thead \Diamond \Diamond tr \Diamond \Diamond th
       <html>
       <title>Table</title>
       <style>
        table {
            border-collapse: collapse;
            width: 50%;
          th, td {
            border: 1px solid ■white;
            padding: 10px;
            text-align: center;
          th {
             background-color: ■#3891A7;
             color: ☐white;
          .even-row {
             background-color: ■#8DC0CC;
          .odd-row {
            background-color: ■#CEE4E9;
       </style>
       </head>
```

```
S.N.
 Name
 Image
 </thead>
 1
 Name 1
 1.jpg
 2
 Name 2
 2.jpg
 3
 Name 3
 3.jpg
 4
 Name 4
 4.jpg
 </body>
</html>
```

S.N.	Name	Image
1	Name 1	1.jpg
2	Name 2	2.jpg
3	Name 3	3.jpg
4	Name 4	4.jpg

8. Write a simple JavaScript program to join all elements of the following array into a string. Sample array: myColor = ["Red", "Green", "White", "Black"];

Expected Output:

"Red,Green,White,Black"

"Red,Green,White,Black"

"Red+Green+White+Black"

Hint: Use these array functions

myColor.toString();

myColor.join();

myColor.join('+');

```
    q. no.8.html > ...

      <html>
              <title>All elements in array into a string. </title>
          </head>
              <script>
                var myColor = ["Red", "Green", "White", "Black"];
                // toString() method
                var str1= myColor.toString();
                document.write(str1 + "<br>");
                // join() method
                var str2= myColor.join();
                document.write(str2 + "<br>");
                var str3= myColor.join('+');
                document.write(str3 + "<br>");
                   </script>
          </body>
      </html>
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```

```
Red, Green, White, Black
Red, Green, White, Black
Red+Green+White+Black
```

9. Write a JavaScript program to compute the sum and product of an array of integers.

```
<html>
          <title>Sum and product of an array of integers.</title>
      </head>
          <script>
             var array = [2,7,6,4,8,5];
             var sum = 0;
             var product = 1;
             // Compute sum and product
              for (var i = 0; i < array.length; i++) {</pre>
                      sum += array[i];
                          product *= array[i];
                      document.write("Sum: " + sum + "<br>");
                      document.write("Product: " + product);
          </script>
          </body>
24
```

Sum: 32

Product: 13440

10. Write a Javascript function to calculate area of rectangle which accepts two parameters

- length and breadth.

Area of rectangle is: 96

11. Write a JavaScript program to add items in an blank array and display the items using function.

```
<title>To add items in an blank array and display the items using function.</title>
    <input type="text" id="text1"></input>
    <input type="button" id="button1" value="Add" onclick="add_item_to_array();"></input>
<input type="button" id="button2" value="Display" onclick="display_array();"></input>
    <div id="Result"></div>
    <script>
    var array = [];
function add_item_to_array()
    array[x] = document.getElementById("text1").value;
    alert("Element: " + array[x] + " Added at index " + x);
    X++;
    document.getElementById("text1").value = "";
function display_array()
    var e = "<hr/>";
    for (var y=0; y<array.length; y++)</pre>
         e += "Element " + y + " = " + array[y] + "<br/>";
    document.getElementById("Result").innerHTML = e;
```

Add Display

Element 0 = 23

Element 1 = 12

Element 2 = 25