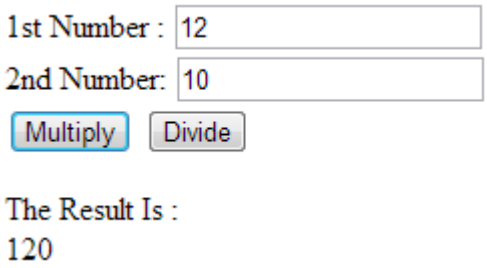
1. Write a function that takes a string as input and returns the reverse of the string?
2. Write a JavaScript program to remove specified elements from the right of a given array of elements.?
3. Write a JavaScript function that reverses a number.
   Example x = 32243;
   *Expected Output :* 34223
4. Write a JavaScript function that checks whether a passed string is a palindrome or not?
   A palindrome is word, phrase, or sequence that reads the same backward as forward, e.g., madam or nurses run.
5. Write a JavaScript function that returns a string that has letters in alphabetical order.
   *Example string :* 'webmaster'
   *Expected Output :* 'abeemrstw'
6. Write a JavaScript function that accepts a string as a parameter and counts the number of vowels within the string.
   Note : As the letter 'y' can be regarded as both a vowel and a consonant, we do not count 'y' as vowel here.
   *Example string* : 'The quick brown fox'
   *Expected Output :* 5
7. Write a JavaScript function that accepts an argument and returns the type.
   Note : There are six possible values that typeof returns: object, boolean, function, number, string, and undefined.
8. Write a JavaScript function that takes an array of numbers and finds the second lowest and second greatest numbers, respectively.
   *Sample array :* [1,2,3,4,5]
   *Expected Output :* 2,4
9. Write a JavaScript for loop that iterates from 0 to 15. For each iteration, it checks if the current number is odd or even, and displays a message on the screen.
   *Sample Output :*
   "0 is even"
   "1 is odd"
   "2 is even"
10. Write a JavaScript function that accepts a string as a parameter and finds the longest word within the string.
    *Example string* : 'Web Development Class'
    *Expected Output :* 'Development'
11. Write a JavaScript function that accepts a number as a parameter and checks whether it is prime or not?
12. Write a JavaScript function that takes an array of numbers and finds the second lowest and second greatest numbers, respectively.
    *Sample array :* [1,2,3,4,5]
    *Expected Output :* 2,4
13. Write a JavaScript program to calculate multiplication and division of two numbers (input from the user).
    *Sample form* :



14. Write a JavaScript conditional statement to find the largest of five numbers.
15. Write a JavaScript program that computes the average marks of the following students. Then, this average is used to determine the corresponding grade.

| **Student Name** | **Marks** |
|---|---|
| David | 80 |
| Vinoth | 77 |
| Divya | 88 |
| Ishitha | 95 |
| Thomas | 68 |

16. The grades are computed as follows :

| **Range** | **Grade** |
|---|---|
| <60 | F |
| <70 | D |
| <80 | C |
| <90 | B |
| <100 | A |

17 Write a JavaScript program that iterates integers from 1 to 100. But for multiples of three print "Fizz" instead of the number and for multiples of five print "Buzz". For numbers multiples of both three and five print "FizzBuzz".Sample Output:

```
1
2
3 Fizz
4
5 Buzz
6 Fizz
7
8
9 Fizz
10 Buzz
```

17. Write a JavaScript program to find the Armstrong numbers of 3 digits
18. Write a JavaScript function to check whether an `input` is an array or not.
19. Write a JavaScript program to sort the items of an array.
    *Sample array* : var arr1 = [ -3, 8, 7, 6, 5, -4, 3, 2, 1 ];
    *Sample Output* : -4,-3,1,2,3,5,6,7,8
20. Write a JavaScript program to find the most frequent item in an array.
    *Sample array* : var arr1=[3, 'a', 'a', 'a', 2, 3, 'a', 3, 'a', 2, 4, 9, 3];
    *Sample Output* : a ( 5 times )
21. Write a JavaScript program that accepts a string as input and swaps the case of each character. For example if you input 'The Quick Brown Fox' the output should be 'tHE qUICK bROWN fOX'.
22. Write a JavaScript program that prints the elements of the following array.
    Note : Use nested for loops.
    Sample array : var a = [[1, 2, 1, 24], [8, 11, 9, 4], [7, 0, 7, 27], [7, 4, 28, 14], [3, 10, 26, 7]];
    *Sample Output* :
    "row 0"
    " 1"
    " 2"
    " 1"
    " 24"
    "row 1"
23. Write a JavaScript program to remove duplicate items from an array (ignore case sensitivity).
24. Write a JavaScript program to find the leap years in a given range of years.
25. Write a JavaScript program to perform a binary search.
    Note : A binary search or half-interval search algorithm finds the position of a specified input value within an array sorted by key value.
    Sample array :
    var items = [1, 2, 3, 4, 5, 7, 8, 9];
    Expected Output :
    console.log(binary_Search(items, 1)); //0
    console.log(binary_Search(items, 5)); //4
26. There are two arrays with individual values. Write a JavaScript program to compute the sum of each individual index value in the given array.
    Sample array :
    array1 = [1,0,2,3,4];
    array2 = [3,5,6,7,8,13];
    Expected Output :
    [4, 5, 8, 10, 12, 13]
27. Write a JavaScript program to find duplicate values in a JavaScript array
28. Write a JavaScript function to remove. 'null', '0', '""', 'false', 'undefined' and 'NaN' values from an array.
    Sample array : [NaN, 0, 15, false, -22, '',undefined, 47, null]
    Expected result : [15, -22, 47]

29. Write a JavaScript function to sort the following array of objects by title value.

30. Write a JavaScript function that merges two arrays and removes all duplicate elements.

31. Test data :
    var array1 = [1, 2, 3];
    var array2 = [2, 30, 1];
    console.log(merge_array(array1, array2));
    [3, 2, 30, 1]

32. **53.** Write a JavaScript program to reverse the order of characters in the string.

33. Write a JavaScript program to redirect to a specified URL
34. Write a JavaScript program to convert an asynchronous function to return a promise.
35. Write a JavaScript program that returns the singular or plural form of the word based on the input number.
36. Write a JavaScript program to perform left-to-right function composition for asynchronous functions.
37. Write a JavaScript program to get the minimum value of an array, after mapping each element to a value using the provided function
38. Write a JavaScript program to create an object from the specified object, where all keys are in lowercase
39. Write a JavaScript program to check if the given argument is a string.
40. Write a JavaScript program to check if the provided integer is a prime number or is not