

JS assig1.js > ...

```
1 // // Q:1 Reverse a string without using the built-in reverse() method.
2 let name= prompt("Enter any word or character:");
3 let text="";
4 for(i=(name.length)-1 ; i>=0 ;){
5     text= name[i];
6     console.log(text);
7     i--;
8 }
```

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| a | assig1.js:6 |
| h | assig1.js:6 |
| a | assig1.js:6 |

>

```
index.html JS assig1.js X
JS assig1.js > ...
11 // // Q:2 Count the number of vowels in a given string.
12 let person= prompt("Enter any words or characters, all must be in lower-case:");
13 let vowel=0;
14 for(i=0 ; i<person.length ;){
15     if (person[i]=="a" || person[i]=="e" || person[i]=="i" || person[i]=="o" || person[i]=="u"){
16         vowel+=1;
17         console.log(vowel + "- Vowel at this position:" + (i+1));
18     }
19     i++;
20 }
21 if(vowel!=0){
22     console.log("So, Total number of vowels found in " + person + " is/are: " + vowel);
23 }
24 else{
25     console.log("NO vowels is in " + person);
26 }
```

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1- Vowel at this position:2 [assig1.js:17](#)

2- Vowel at this position:3 [assig1.js:17](#)

3- Vowel at this position:6 [assig1.js:17](#)

So, Total number of vowels found in zeeshan is/are: 3 [assig1.js:22](#)

> |

Explorer (Ctrl+Shift+E) **assig1.js** ✕

JS assig1.js > ...

28

29 // // Q:3 Convert the first letter of each word in a sentence to uppercase.

30 let name = prompt("Enter any word or characters: ");

31 let text="";

32 text= name.toUpperCase();

33 console.log("Your input(",name,") in Upper-Case: " + text);

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Your input( pakistan ) in Upper-Case: PAKISTAN [assig1.js:33](#)

>

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JS assig1.js > ...

```
36 // // Q:4    Check if a string is a palindrome
37 function checkPalindrome(string){
38     const len = string.length;
39     for (let i = 0; i < len / 2; i++) {
40         if (string[i] !== string[len - 1 - i]) {
41             return ' not a palindrome';
42         }
43     }
44     return ' a palindrome';
45 }
46 const string = prompt('Enter a string: ');
47 const value = checkPalindrome(string);
48 console.log("Your input( " ,string, " ) is" ,value);
```

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Your input( madam ) is a palindrome

assig1.js:48



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JS assig1.js > ...

```
50 // // Q:5 Find the sum of all positive numbers in an array.
51 // const no = [];
52 // no[0]= 3;
53 // no[1]= 6;
54 // no[2]= 9;
55
56 const no=[3,6,9,12];
57 let sum=0;
58 for(i=0 ; i<no.length ; ){
59     sum += no[i];
60     i++ ;
61 }
62 console.log("Sum of ",no , " is: " ,sum);
```

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Sum of (4) [3, 6, 9, 12] is: 30

assig1.js:62

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JS assig1.js

JS assig1.js > ...

```
65 // // Q:6 Find the index of the first occurrence of a specific element in an array.
66 const arr=[1,5,10,4,8,0,2,7,3,6,9];
67 let inp = prompt("Enter any number b/w 0-10 : ");
68 console.log("The sequence of Numbers in array: " + arr);
69 for(i=0 ; i<arr.length ; ){
70     if(inp==arr[i]){
71         console.log("Number " + inp + " found at index: " + i);
72         break
73     }
74     i++ ;
75 }
```

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The sequence of Numbers in array: 1,5,10,4,8,0,2,7,3,6,9

Number 8 found at index: 4

assig1.js:68

assig1.js:71

JS assig1.js &gt; removeDuplicate

```
78 // // Q:7 Remove all duplicates from an array without built-in methods.
79 function removeDuplicate(str, n)
80 {
81     // Used as index in the modified string
82     var index = 0;
83     // Traverse through all characters
84     for (var i = 0; i < n; i++)
85     {
86         // Check if str[i] is present before it
87         var j;
88         for (j = 0; j < i; j++)
89         {
90             if (str[i] == str[j])
91             {
92                 break;
93             }
94         }
95         // If not present, then add it to // result.
96         if (j == i)
97         {
98             str[index++] = str[i];
99         }
100     }
101 }
```

index.htmlJS assig1.js

JS assig1.js > removeDuplicate

```
99
100
101     return str.join("").slice(str, index);
102 }
103
104 var str = prompt("Enter any word or character: ");
105 console.log("string is: ", str);
106 var separ = str.split("");
107 var n = separ.length;
108 var result= removeDuplicate(separ, n);
109 console.log(result);
110 document.write(result);
```

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string is: AFNAN  
AFN

assig1.js:105  
assig1.js:109



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JS assig1.js X



JS assig1.js &gt; ...

```
113 // // Q:8    Sort the array in ascending and descending without built-in methods.
114
115 // Clone the array to avoid modifying the original
116 const clonedArray = [2,6,1,5,0];
117 // Implement the bubble sort algorithm
118 for (let i = 0; i < clonedArray.length - 1; i++) {
119     for (let j = 0; j < clonedArray.length - i - 1; j++) {
120         // Use the custom compare function or default comparison
121         const shouldSwap =
122             typeof compareFunction === "function"
123             ? compareFunction(clonedArray[j], clonedArray[j + 1]) > 0
124             : String(clonedArray[j]) > String(clonedArray[j + 1]); // Default comparison as strings
125         if (shouldSwap) {
126             // Swap elements
127             const temp = clonedArray[j];
128             clonedArray[j] = clonedArray[j + 1];
129             clonedArray[j + 1] = temp;
130         }
131     }
132 }
133 console.log(clonedArray);
```

Explorer (Ctrl+Shift+E) \$ assig1.js x

JS assig1.js > ...

```
113 // // Q:8 Sort the array in ascending and descending without built-in methods.
```

```
114
```

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(5) [0, 1, 2, 5, 6]

assig1.js:133

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JS assig1.js > ...

```
136 // // Q:9      Print all even numbers between 1 and 20 using a while loop
137 let no=1;
138 console.log("Even numbers are:");
139 while(no<21){
140     if(no%2 === 0){
141         console.log(no);
142     }
143     no+=1;
144 }
```

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Even numbers are: assig1.js:138

2 assig1.js:141

4 assig1.js:141

6 assig1.js:141

8 assig1.js:141

10 assig1.js:141

12 assig1.js:141

14 assig1.js:141

16 assig1.js:141

18 assig1.js:141

20 assig1.js:141

index.htmlJS assig1.js

JS assig1.js > ...  
146 // // Q:10 Calculate the factorial of a number using a do-while loop.  
147 let inp= prompt("Enter any number:");  
148 let fac=1;  
149 console.log("Factorial of " + inp + " is:");  
150 do{  
151 fac\*= inp;  
152 inp -= 1;  
153 }while(inp>0);  
154 console.log(fac);

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Factorial of 6 is:  
720

assig1.js:149  
assig1.js:154



index.htmlJS assig1.js

JS assig1.js > ...  
157 // // Q:11 Iterate through the properties of an object using a for-in loop.  
158 // for-in : used for objects  
159 let student= {  
160 name: "Ali",  
161 age: 30,  
162 cgp: 3.7,  
163 };  
164 for(let key in student){  
165 console.log("key=", key , " value=", student[key]);  
166 }

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|           |            |               |
|-----------|------------|---------------|
| key= name | value= Ali | assig1.js:165 |
| key= age  | value= 30  | assig1.js:165 |
| key= cgp  | value= 3.7 | assig1.js:165 |

index.htmlJS assig1.js

JS assig1.js > ...  
174 // // Q:12 Loop through an array using a for-of loop and double each element.  
175 let arr=[0,2,6,8];  
176 let new\_arr= [];  
177 let join=[];  
178 for(let value of arr){  
179 new\_arr += value;  
180 new\_arr += value;  
181 join=Array.from(new\_arr);  
182 }  
183 console.log("Original Array: ",arr);  
184 console.log("Doubling element of Array: ",join);

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Original Array: ▶ (4) [0, 2, 6, 8]  
Doubling element of Array: ▶ (8) ['0', '0', '2', '2', '6', '6', '8', '8']

assig1.js:183  
assig1.js:184

```
Explorer (Ctrl+Shift+E)  $ assig1.js  X

JS assig1.js > ...
186
187 // // Q:13      Check if a number is even or odd and return a corresponding message.
188 let inp= prompt("Enter any number:");
189 if(inp%2===0){
190     console.log("The number(" + inp + ") u provide is an Even Number");
191 }
192 else{
193     console.log("The number(" + inp + ") u provide is an Odd Number");
194 }
195
```

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The number(7) u provide is an Odd Number [assig1.js:193](#)

Explorer (Ctrl+Shift+E) **5** assig1.js X

**JS** assig1.js > [🔍] check

```
197 // // Q:14 Find the maximum of three numbers using nested ternary operators.
198 let inp1 = prompt("Enter first number:");
199 let inp2 = prompt("Enter second number:");
200 let inp3 = prompt("Enter third number:");
201 console.log("1st no u provide is: ",inp1);
202 console.log("2nd no u provide is: ",inp2);
203 console.log("3rd no u provide is: ",inp3);
204 let check =
205     (inp1 > inp2 && inp1 > inp3)
206     ? "Input 1 is Greater"
207     : (inp2 > inp1 && inp2 > inp3)
208     ? "Input 2 is Greater"
209     : (inp3 > inp1 && inp3 > inp2)
210     ? "Input 3 is Greater"
211     : "All inputs are equal";
212 console.log("Maxmimum out of them: ",check);
213
```



index.html × JS assig1.js ×

JS assig1.js > [?] check

```
197 // // Q:14 Find the maximum of three numbers using nested ternary operators.
198 let inp1 = prompt("Enter first number:");
199 let inp2 = prompt("Enter second number:");
200 let inp3 = prompt("Enter third number:");
```

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1st no u provide is: 4 [assig1.js:201](#)

2nd no u provide is: 7 [assig1.js:202](#)

3rd no u provide is: 3 [assig1.js:203](#)

Maxmimum out of them: Input 2 is Greater [assig1.js:212](#)

>

index.htmlJS assig1.js

JS assig1.js > ...  
215 // // Q:15 Determine if a year is a leap year or not.  
216 let inp= prompt("Enter any year number:");  
217 if(inp%4===0){  
218 console.log(inp," is a Leap Year")  
219 }  
220 else{  
221 console.log(inp," is not a Leap Year")  
222 }

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2024 is a Leap Year

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