

If-Else:

1. Write a program to prompt the user for age. If age is less than or equal to (\leq) 14, alert "Not Allowed". If age is greater than 14 and less than 65, alert "Regular Price". If age is equal to 50, alert "Special discount".
2. Write a program to prompt the user for age. If age is equal to 14, alert "coupon 1". If age is equal to 21, alert "coupon 2". If age is equal to 30, alert "coupon 3". If age is equal to 50, alert "coupon 4". Else alert "No coupon".
3. Write a program to prompt the user to enter a day (like Monday, Tuesday, Wednesday, etc). Based on the value entered by the user, display a special dish. For example, if the user enters Monday then alert "Mondays, We serve Pasta". If the user enters Friday then alert "Fridays, we serve Tacos".
4. Write a program to prompt the user to enter a year (like 2011, 2012, 2010, etc). Based on the value entered, display the movie that won the Oscars for that year. Just write this for last 8 years. If he enters beyond last 8 years then alert the user to enter between 2003-2012.
5. Write a program to prompt the user to enter the Grade of a student (like A+, A, A-, Betc). Based on the value entered, display terms like "Excellent", "Good Job", "Average" etc.

Switch:

Write a program to prompt the user to enter the Grade of a student (like A+, A, A-, Betc). Based on the value entered, display terms like "Excellent", "Good Job", "Average" etc.

Loops:

1. Write a program to print (in console) 1-30 numbers with a line break.
2. Write a program to print numbers 1-10 in reverse order (like 10,9,8,7,6,...,1) with a line break.
3. Write a program to print numbers from 12 to 33 and also at the end print the sum of all these numbers.
4. Write a program to print (in console) 1-30 odd numbers with a line break
5. Write a program to print (in console) 1-30 even numbers with a line break

6. Write a program to print 1-100 prime numbers.

For-Loop and If-Else:

1. Print numbers from 1 to 10 //for

2. Print numbers from 10 to 1

3. Print odd numbers from 1 to 50

4. Print even numbers from 1 to 100

5. Numbers to be printed between 40 to 60

6. Numbers printed between 80 to 100

7. If you enter '1' – it should print numbers between 1 to 11

If you enter '2'- it should print numbers between 2 to 12

If you enter '3'- it should print numbers between 3 to 13

If you enter '4'-it should print numbers between 4 to 14

If you enter '5'-it should print numbers between 5 to 15

8. If the value is entered '123', alert should be 'One Two Three'

If the value is entered '124', alert should be 'One Two Four'

If the value is entered '125', alert should be 'One Two Five'

If the value is entered '126', alert should be 'One Two Six'

If the value is entered '127', alert should be 'One Two Seven'

If user enter number it should print in an number.

9. If I enter '1', alert should be 'One'

If I enter '2', alert should be 'Two'

If I enter '3', alert should be 'Three'

If I enter '4', alert should be 'Four'

If I enter '5', alert should be 'Five'

Else, please enter a valid number.

10. If I enter a number between 1 to 10, it should alert, the number is between '1 and 10'

If I enter a number between 11 to 20, it should alert, the number is between '11 and 20'

If I enter a number between 21 to 30, it should alert, the number is between '21 and 30'

If I enter a number between 31 to 40, it should alert, the number is between '31 and 40'

If I enter a number between 41 to 50, it should alert, the number is between '41 and 50'

11. If the number is less than 50 or greater than 200, alert the number is a valid number

If the number is between 50 and 200, alert this is a good number.

Else, alert 'It is an invalid number'.

12. If I enter 'One', alert '1'

If I enter 'Two', alert '2'

If I enter 'Three', alert '3'

If I enter 'Four', alert '4'

If I enter 'Five', alert '5'

13. If I enter numbers Six to Ten, please enter a proper number. Anything else, please enter a valid number.

14. If I enter an even number, I want next 10 even numbers to be printed. If I enter an odd number, I want next 10 odd numbers to be printed.

15. If I enter an even number, I want previous 5 even numbers to be printed. If I enter an odd number, I want previous 5 odd numbers to be printed.

Functions- Calling, Passing, Return:

1. Create a function that adds two numbers and returns the sum.
2. Create a function that takes an array and adds all of the numbers and returns the sum of it.
3. Create a function that takes unknown number of arguments and multiplies all the numbers and returns the product of all.

(MAKE SURE YOU RETURN . DO NOT DO only console.log for outputs)

Arrays: (Or bring examples done with all array methods on w3schools)

1. Write a program to display 10 quotes (one after the other in sequence). Hint: use Arrays to store the quotes (sayings). Name the function as displayQuotes.
2. Create a function that accepts a parameter which is of the type Array and alerts the length of the array as well as the elements one after the other starting from 4th element.
3. For the above created array, perform the following operations on an array.
 - a. pop()
 - b. Now check the length and print it to console
 - c. reverse()
 - d. Now access the 8th array element and print it to console
 - e. shift()
 - f. Now check the length and print it to console
 - g. sort()
4. Prompt the user for appropriate values based on the operation that you are performing and then execute the following operations on the array:
 - a. push()

b. Now check the length and print it to console

c. unshift()

d. Now check the length and print it to console

e. splice()

f. Now check the length and print it to console. Now access the 5th array element and print it to console.

g. slice()

5. Create a Months Array (jan, feb, mar...etc) and repeat question 3 and 4. Once you implement these two arrays, use concat() method to add these arrays. Print each of the elements of this concatenated array one after the other - hint: use loops.

6. Create an array with Monday, Tuesday, Wednesday, Thursday, Friday and Saturday and console.log individually.

7. Ask for a prompt, if I enter 'Monday', in console display- 'Tuesday', 'Wednesday', 'Thursday', 'Friday' and 'Saturday'.

If I enter 'Tuesday', in console display 'Wednesday', 'Thursday', 'Friday' and 'Saturday'.

If I enter 'Wednesday', in console display 'Thursday', 'Friday' and 'Saturday'.

If I enter 'Thursday', in console- 'Friday' and 'Saturday'.

If I enter 'Friday', in console- 'Saturday'.

If I enter 'Saturday', in console - 'Sunday'.

If I enter 'Sunday', in console- it is the last day of the week.

8. Ask for a prompt, if I enter 'Monday', in console display 'Tuesday', 'Wednesday', 'Thursday', 'Friday', 'Saturday', 'Sunday' and 'Monday'.

When I enter 'Tuesday', in console display 'Wednesday', 'Thursday', 'Friday', 'Saturday', 'Sunday', 'Monday' and 'Tuesday'.

When I enter 'Wednesday', in console display 'Thursday', 'Friday', 'Saturday', 'Sunday', 'Monday', 'Tuesday' and 'Wednesday'.

When I enter 'Thursday', in console display 'Friday', 'Saturday', 'Sunday', 'Monday', 'Tuesday' and 'Wednesday'.

When I enter 'Friday', in console display 'Saturday', 'Sunday', 'Monday', 'Tuesday', 'Wednesday', 'Thursday' and 'Friday'.

When I enter 'Saturday', in console display 'Sunday', 'Monday', 'Tuesday', 'Wednesday', 'Thursday' and 'Friday' and 'Saturday'.

When I enter 'Sunday', in console display 'Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday' and 'Saturday'.

9. Create an array, for every match, display an alert 'match'.

10. Create two arrays, for every match between the 2 arrays, display an alert 'there is a match'.

Strings:

1. What is the result of "3"+5+6.

2. What is the result of 3+"5"+6

3. What is the result of 3+5+"6"

4. Write a program to return the length of a string "Pneumonoultramicroscopicsilicovolcanoconiosis".

5. Write a program to convert the above string to Upper case

6. Write a program to convert the above string to Lower case

7. Consider the string "I like this product; I hate this product; This product is worth buying; I don't agree with the above user". Now break this whole string into pieces wherever you see ";". Now print the broken down pieces one after the other in console.

8. For the above question 1, return the number of time the letter "o" appears.

Assignments on DOM:

1. Have a paragraph. On click of a button, alert the text in the paragraph.
2. Have a paragraph. On click of a button, change the backgroundColor and text color of the paragraph.
3. Have two text boxes. On click of a button, get the value from the first text box and assign that value to the second text box.
4. Have an image.
 - a. On click of a button, replace the image with another image.
 - b. On click of a button, hide the image
 - c. On click of a button, show the image
5. Have an image and two buttons, PREV and NEXT. Have 10 images in an array. When you click on NEXT, the next picture should display and when you click on PREV, the previous image should display.

DOM and Events:

1. Write a program to convert Fahrenheit temperature to Celsius. Here are the things that needs to be implemented as a part of this question:
 - a. Ask the input from the user for Fahrenheit using a text field
 - b. As soon as the user types in the Fahrenheit number in the text field, the result should display immediately in the div below
 - c. Hence, there should not be any submit button
 - d. Hint: Use onkeyup event. Formula is : $C = (F - 32) * 5/9$
 - e. Don't display the decimal values - but you should accept decimal values from the user
 - f. If the user enters any invalid values (strings)) then you should make the input box border red and prompt user to enter correct values
2. Have images, p tags, div tags and various other elements on the page. When the page loads, an alert saying "welcome to my blog" should pop up.

3. Have several html tags on the page. Have an input button with id hideElems. When this button is clicked all the elements on the page should be hidden.
4. Have an input button with id showElems. When this button is double clicked, all the elements on the page should be shown.
5. Have an input button with a id and
 - a. when you mouseover this button, the elements on the page should be shown.
 - b. when you mouseout this button, the elements on the page should be hidden.
6. When page loads, write code to hide elements all the elements with ids "main_one", "main_two" and "main_three".
7. Create 10 check boxes. When you click a button called "Select All" - all the check boxes should be unchecked.
8. Have called VALIDATE then it should check if the select boxes are selected or NOT. If yes, then alert the TEXT that were selected in each of these select boxes.
9. Have two buttons - "CHECK URL" and "ADD LINK". The button "ADD LINK" to your favorite websites. Now on a click of "CHECK URL" button, check to see if "http://www.pro-tekconsulting.com" is included in these 5 anchors tags or not. If NO, then enable "ADD LINK" button. When you click on this "ADD LINK" button, Pro-Tekwesbite link should be added to the DOM.
10. Have two divs side by side - lets call them "Form Div" and "View Div".
 - a. The first div - "Form Div" should have a simple form with fields - first name, last name, gender, state (select box) and "Save" button.
 - b. The "View Div" should have a button called "EDIT" - but this button should be hidden by default.
 - c. When you click on the "Save" button, the user entered data should appear in the "View Div" - also the form input fields should be cleared out (should be empty).
 - d. The View Div should display form data in span tags or p tags or div tags but not as input tags. Also the "EDIT" button should now be visible.
 - e. When you click on the "EDIT" button, the form should be repopulated with the data so that you can make some changes and save again.

Extra Assignments on DOM:

1. Create a drop down box. Should have one default .

a. Make Invisible

b. Change Color

c. Make visible and Change color

d. Default

2. Create two text fields and a button.

Whatever is entered in first text field, the value should go to the second text field and the first text field, should remain blank , with no value.

3. Create two radio buttons, the radio buttons should be checked.

4. Create one div, one text field, one button.

If I enter 'black' in text field (div border should be black)

If I enter 'red' in text field (div border should be red)

If I enter 'anything else' (for eg: yellow or green) it should alert- "pleases enter a valid color".

5. Create two radio buttons, two text fields, 1 regular button.

If any value entered in first text field, first radio button should be highlighted, if any value entered in second text field, second radio button should be highlighted, if there is nothing entered, there should an alert, 'please enter only in one text box'.

6. a. Do a form validation. Each invalid text field should come as 'alert'. All input types which could not validate, should come in different 'alerts'.

b. Only '1' alert, it should show all input types which are not validated.

7. Create one button. When you press 'button', '5images' should appear one after another. (everything is done in Java script).

8. Create a wrapper and a button. If you click on the button, 2text fields, 1 image. If you click on the button, a small div with text, should appear (All this is in Js- innerHTML).

9. You need to have 'Comments', alternate colors for all the comments and 'post the date', next to each comment. (properties should begin in 'CSS').

10. There should be '3text fields', '2buttons'.

a. If you press the first button, it should appear in the div.

b. If you hit the second button, whatever you enter in the div, should come back to input field.

11. Have one radio button and one checkbox. When the radio button is checked, display as 'checked' . When the 'checkbox' is checked , display as 'checked'. Have one drop-down list . Whatever, you select in 'drop-down', should appear on the right side.

12. Create a form, 3text fields, 2 radio buttons, 1 checkbox and 1 drop down. This is at the hit of each key.

a. If you entering a number in the first text field, it should say 'number'.

b. If you entering a character in the first text field, it should say 'string'.

c. If you enter nothing, it should say 'null'.

After the user enters the total word(for e.g: – a number or a character), then it should display as a 'number' or 'string'. The moment you select a 'radiobutton', it should say 'selected'.

The checkbox should show-

a. If the option is checked- display 'checked'.

b. If the option is not checked- display 'unchecked'.

When you hit on 'submit', it should alert 'the form has been successfully submitted'.

13. Create an image. When I go over the image, the description of the image should come up. (Define something at an 'Alt level' , on top of the image.

Create a text field, whatever I enter in the text field, the info should be displayed on the side of the image