

JavaScript hands on

1. Write a javascript program that will find the sum of numbers in an array.
The array can have elements which are array.
2. Write a javascript program that will push zeroes last.
For eg. if the input is "302005". The output should be 325000
3. Write a web page with a javascript to write, "Welcome to my very special page" with a line break between my and very.
4. Write a web page with a javascript that writes a paragraph with an image inside of it (so that an image shows up on your page).
5. Write a web page that uses the prompt to get the user to input their first name and then their year of birth. Calculate how old they are and write it to the web page (assume everyone was born on the first day of January of this year)
6. Write a web page that uses a prompt to ask the user, "How are you feeling?" Then, think of some potential answers. Using an if branching condition to get the computer to write out an appropriate response (e.g., if the answer was, "I'm feeling down", you might want something like,
if (answer == "I'm feeling down")
 { ...
 }

Extra: Have the program continue.

```
If (answer == "I'm feeling down")  
{  
    var ans2 = prompt("Are you feeling down because of your job?")  
    If (ans2 == "yes")  
    {  
        ...  
    }
```

And continue the conversation. This could go on forever...

7. Simple Rock/Paper/Scissors. Use the prompt box to ask the user, "Pick 0 for Rock, 1 for Paper, or 2 for Scissors (you'll have to use ParseInt on this one). Then generate a random number between 0 and 3 (remember, when we generate a random number it goes up to but not including 3). Okay, here's the part I always get confused. Rock (0) beats Scissors (2), paper(1) beats rock (0), and scissors(2) beats paper(1). So you must write out who won by checking your answer against the computer's randomly generated answer, e.g., (&& means and)
if ((myanswer == 0) && (randnum == 1))
{ document.write("<p>Sorry, the computer won.</p>")
}
...

8. **Simple sales app:** Your web site sells bags of coffee for the Save the Aardvarks Foundation. You sell regular coffee at \$9/bag, you sell decaffeinated coffee at \$8/bag, and you sell mocha coffee for \$11/bag. If the user buys more than \$100 worth, they get a \$15 discount. Use the prompt to ask the user how many bags of regular coffee s/he wants. Then use the prompt to ask about decaf, and then about mocha. Using the input, calculate the total amount the user will pay.
If the total is over \$100, subtract \$15 from their total. Write out their receipt to the web page, by writing out how many bags of regular they purchased and how much that works out to, then how many bags of decaf and how much that works out to, and then how many bags of mocha they purchased and how much that works out to. Finally write out how much the total will be.

So, for example, after running the script, the web page might look like this:

You purchased 3 bags of regular, totaling 27 dollars.

You purchased 2 bags of decaf, totaling 16 dollars.

You purchased 6 bags of mocha, totaling 66 dollars.

Your total purchase cost is 93 dollars.

Now, using the prompt ask the user if s/he wants to become a member of the Save the Aardvark Foundation and save 20% on their purchase (if you want to be fancy, you can tell them exactly how much they'll save). If the user says "yes", add another \$50 to the total for membership. Now take 20% off of that. Print out the receipt, as above, only including the membership.

9. Prompt the user for a number in the range 0...100. If the number is out of range, display an error message and prompt again until a valid number is entered. Assume the user enters a number each time.
10. Prompt for an integer, then display the sum of the integers from 0 through the number entered. For example, if you enter 10, then display 55 which is the sum of $0 + 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10$.