

Set of practice Questions. I will set them up at Practice question assignment and you can ask them to solve these during the session and show you, their code. first and then upload the complete file to the inbox.

Practice Questions – September 09, 2024

Try to solve each of the following using JavaScript. If you need to print something, use `console.log()`, which will print the argument(s) you give it.

1. Create a variable `label` and assign it the value "keyincollege". Create another variable `tld` and assign it "ca". Create a third variable `domainName` that combines `label` and `tld` to produce the value "keyincollege.ca".
2. Create a variable `isKeyin` and assign it a boolean value (`true` or `false`) depending on whether or not `domainName` is equal to "keyincollege.ca". HINT: use `===` and don't write `true` or `false` directly.
3. Create a variable `isNotKeyin` and assign it the inverse boolean value of `isKeyin`. HINT: if `isKeyin` is `true`, `isNotKeyin` should be `false`.
4. Create four variables `byte1`, `byte2`, `byte3`, `byte4`, and assign each of these a value in the range 0-255.[You can assign any random numbers to each `byteN` variable, like 198 or 110 or 1 or any number in the range of 0-255.
5. Create a variable `ipAddress` and assign it the value of combining your four `byteN` variables together, separated by ".". For example: "192.168.2.1".
6. Write code to display the multiplication table of a given integer. Define any variable and assign it a value, like in following example: your number is 15. I will test your code with changing the value of the variable...

`var table = 15;`// you need to define a variable like this and display its table...

Expected Output:

15 X 1 = 15

...

...

15 X 10 = 150

7. Write code to display all even and odd numbers from first 100 numbers by using for loop and if condition.
8. By using the same concept of above question no.7, display the sum of all even numbers from 100 numbers.
9. A perfect number is a number whose divisors sum is equal to number itself:

Perfect Number

Divisor of 28 : 1, 2, 4, 7, 14, 28

Sum of $1 + 2 + 4 + 7 + 14 = 28$

Sum = Original Number

28 is Perfect number

Write code to check whether a given number is "perfect number" or not. You can again just define a variable and apply logic to check it.

10. Write a program to determine whether a given number is prime or not

You can check your prime factorization
by multiplying your answer.
If you get the Original number,
You are correct.

