JavaScript Coding Exercises.

1. Declare three variables: `firstName`, `lastName`, and `age`. Assign them appropriate values and print a sentence like "My name is John Doe and I am 25 years old."
2. Create two variables `num1` and `num2` with values 15 and 8. Calculate and print their sum, difference, product, and quotient.
3. Declare a variable `temperature` with value 22. Write an if-else statement that prints "It's cold" if temperature is less than 20, otherwise print "It's warm".
4. Create a variable `price` with value 50 and another variable `discount` with value 10. Calculate the final price after discount and print it.
5. Declare a variable `number` with any value. Write code to check if the number is positive, negative, or zero, and print the result.
6. Create a variable `score` with value 75. Write code that prints "Pass" if score is 50 or above, otherwise print "Fail".
7. Declare two variables `a` and `b` with values 12 and 15. Write code to check if `a` is greater than `b` and print an appropriate message.
8. Create a variable `age` with value 16. Write code that checks if the person can vote (age 18 or above) and print "Can vote" or "Cannot vote".
9. Declare a variable `isWeekend` with value `true`. Write code that prints "No work today!" if it's weekend, otherwise print "Time to work!".
10. Create a variable `num` with value 24. Write code to check if the number is even or odd and print the result.
11. Write code that takes a variable `marks` (value 85) and assigns a grade based on: 90-100: A, 80-89: B, 70-79: C, 60-69: D, below 60: F. Print the grade.
12. Create variables for `length` and `width` of a rectangle (values 5 and 10). Calculate and print both the area and perimeter.
13. Write code with a variable `year` (value 2024). Check if it's a leap year or not. (Leap year: divisible by 4, but if divisible by 100, must also be divisible by 400). Print the result.
14. Create a variable `number` with value 47. Write code that checks if the number is divisible by both 3 AND 5, just by 3, just by 5, or by neither. Print appropriate messages for each case.
15. Write code with three variables: `subject1`, `subject2`, `subject3` containing marks (values 78, 85, 92). Calculate the average and print "Excellent" if average >= 90, "Good" if >= 75, "Average" if >= 60, otherwise "Needs improvement".
16. Create a variable `character` with value "A". Write code to check if it's an uppercase letter, lowercase letter, or neither (you can assume it's a single character). Print the result.
17. Write code with variables `age` (value 25) and `hasLicense` (value true). A person can drive only if they are 18 or older AND have a license. Print whether they can drive or not.

18. Create a variable `totalAmount` with value 1000 and `isMember` with value true. If the person is a member, apply a 20% discount, otherwise 5% discount. Calculate and print the final amount.
19. Write code with a variable `number` (value 15). Print all numbers from 1 to that number, but only print numbers divisible by 3.
20. Create variables `hour` (value 14) representing time in 24-hour format. Write code that prints "Good morning" (5-11), "Good afternoon" (12-17), "Good evening" (18-21), or "Good night" (22-4).

SUBMISSION INSTRUCTIONS.

Create a repository called javascript exercises, the folder should contain 4 .js files called exercise1 , exercise2 , exercise3 and exercise4. Each file should contain the solution 5 questions sequentially i.e file 1 should contain the solution of question 1 - 5 and so on.

Once you are done , upload the repository to Github , make the code public.

You are to submit the repository link via a google form I will drop soon.

Goodluck and God speed!