Practice Problems JS

1. Write Javascript program to find sum of n natural numbers. n should be entered by the user.
2. 3. Write a Javascript program that takes an integer from the user and prints its times table up to 10.
3. 4. Write a Javascript program to take an integer from the user and prints its times table up to x. x is also given by the user.
4. 5. Write a Javascript program that takes an integer from the user and prints its factors.
5. 6. Write a Javascript program that takes an integer from the user and determines if it is a prime number. Print appropriate
6. messages. Prime numbers are those which have only factors: 1 and the number itself.
7. Write Javascript programs to count the number of vowels in a sentence input by the user.
8. Write a Python program that requests an integer value from the user. If the value is between 1 and 100 inclusive, print "OK"; otherwise, do not print anything.
9. Write a Python program that requests an integer value from the user. If the value is between 1 and 100 inclusive, print "OK", otherwise, print "Out of range".
10. 5. Write a Python program to check if a character entered by the user is an alphabet or not. If the user enters more than one character as input, the program prints some appropriate error message and exit.
11. Write a Python program to check if a character entered by the user is an uppercase alphabet or a lowercase alphabet. If the user enters more than one character or any character other than an alphabet as input, the program prints appropriate error messages and exit.
12. Write a Python program to check if a character entered by the user is an alphabet or a digit or a special character. If the user enters more than one character as input, the program prints some appropriate error message and exit.
13. 10. Write a Python program that requests five integer values from the user. It then prints one of two things: if any of the values entered are duplicates, it prints "DUPLICATES"; otherwise, it prints "ALL UNIQUE".
14. Write a Python program to check whether the triangle is equilateral, isosceles or scalene triangle. In equilateral triangle all three sides are equal, in isosceles triangle any two sides are equal, and in scalene triangle none of the three are equal.
15. Write a Python program to input marks (obtained marks as well as maximum marks) for five subjects Physics, Chemistry, Biology, Mathematics and Computer. It calculates and prints percentage and grade according to following:

Percentage >= 90% : Grade A
Percentage >= 80% : Grade B
Percentage >= 70% : Grade C
Percentage >= 60% : Grade D
Percentage >= 40% : Grade E
Percentage < 40% : Grade F

16. Write a Python program that accepts a single integer value entered by the user. If the value entered is less than one, the program prints nothing. If the user enters a positive integer, n, the program prints an nxn box drawn with * characters.
    Test Data:
    Enter value for n: 1
    Expected Output: *
    Enter value for n: 3
    Expected Output: ***
    ***
    ***
17. Write a Python program that takes an integer from the user and finds its factorial. Print appropriate messages and the result. Also include the special case for printing factorial of 0.
18. Implement a program that requests four numbers (integer or floating-point) from the user. Your program should compute the average of the first three numbers and compare the average to the fourth number. If they are equal, your program should print 'Equal' on the screen.
    Test Data:
    Enter first number: 4.5
    Enter second number: 3
    Enter third number: 3
    Enter last number: 3.5
    Expected Output: Equal