All-Questions

Practice 1

- 1. Write a program that prints "Hello World" on the console
- 2. Write a function that takes two numbers as input and prints their sum
- 3. Write a function that calculates and prints the area of a rectangle given its length and width

Practice 2

- 4. Write a function that tells if a given number is even or odd
- 5. Write a function that finds and prints the smallest number among three given numbers.

Practice 3

6. Write a function that returns the reverse of a string

Practice 4

7. Write a function that calculate factorial of a given number

Practice 5

8. Write a function that tells if provided year is a leap year or not

Practice 6

9. Write a function that calculates and prints the sum of digits of a given number

Practice 7

10. Write a function that generates and prints a multiplication table for a given number up to a specific range

Practice 8

11. Write a function that finds and prints the maximum element in an array of numbers

Practice 9

12. Write a function that checks if a string is palindrome or not

Practice 10

13. Write a function that returns the result of raising a given number to a specified power

Practice 11

14. Write a function that counts and prints the number of vowels and consonants in a given string

Practice 12

15. Write a function that finds all the factors of a given number.

Practice 13

16. Write a function that calculates and returns the average of a set of numbers.

Practice 14

17. Write a function that calculates and prints the simple interest on a loan amount.

Practice 15

18. Write a function that tells if the given number is prime or not. (Optimized Version)

Practice 16

19. Write a function that counts and returns the number of words in a sentence.

Practice 17

20. Write a function that converts a temperature in Celsius to Fahrenheit.

Practice 18

21. Write a program that swap two numbers

Practice 19

22. Write a program that checks if a number is Armstrong or not

Practice 20

- 23. Write a program that prints numbers from 1 to N replacing
 - multiple of 3 with "Fizz"
 - multiple of 5 with "Buzz"
 - multiple of both 3 & 5 with "FizzBuzz"

Practice 21

24. Write a program that prints a number pyramid

Practice 22

25. Write a program that counts the occurrences of each character in a given string

Practice 23

26. Write a program that checks if a given string is in alphabetical order.

Practice 24

27. Write a program that checks if two given strings are anagrams of each other

Practice 25

28. Write a program that transposes a given matrix (swaps rows and columns)

Practice 26

29. Write a program that checks if a given number is a perfect number.

Practice 27

- 30. Write a program that checks if the provided password is strong or not.
 - Minimum 8 characters
 - One small case character (a-z)
 - One big case character (A-Z)
 - One number 0-9
 - One special character (!@)

Practice 28

31. Write a program that multiplies two matrices and returns the result

Practice 29

32. Write a program that calculates the tip amounts based on the bill total and percentages entered by the user (Tip Calculator)

Practice 30

33. Write a program to find and count all palindromic substrings within a given string.

Practice 31

34. Write a program that checks if a given string of a parentheses is balanced and well formed.

Practice 32

- 35. Write a program that finds all occurrences of a given word in a big string.
 - Example: Find word "big"

Practice 33

- 36. Write a program that generates a random number
- 37. Write a program that takes input from the user

Practice 34

38. Write a program that simulates rolling a dice

Practice 35

39. Write a program that creates a basic alarm clock

Practice 36

40. Write a program that builds a number guess game.

Practice 37

41. Write a program that builds a very basic calculator.

Practice 38

42. Write a program that plays Rock Paper Scissors with the user.

Practice 39

43. Write to-do list program that allows user to add, remove, and list tasks.