General programming logic

1. Write a function to add two numbers.
2. Write a function to get biggest between 2 numbers.
3. Write a function to find whether the give number is even or not
4. Write a function to get grade of 3 subject marks.
   1. Grade is based on average of 3 subject marks
      1. Average>90 => A+
      2. Average<90 and average>=80 => A
      3. Average<80 and average>=70 => A-
      4. Average<70 and average>=60 => B+
      5. Average<60 and average>=50 => B
      6. Average<50 => FAIL
5. Write a function to print first 10 natural numbers
6. Write a function to print first 10 natural numbers in reverse order
7. Write a function to print first 10 even natural numbers
8. Write a function to print numbers between the range ( say 10 to 100 OR 100 to 200 etc.,)
9. Write a function to print mathematical table of given number
10. Write a function to find whether the given number is prime or not.
11. Write a program to print prime numbers between 2 to 100
12. Write a function to get sum of individual digits of given number
    1. i/p: 123 => output : 6 ( i.e., 1+2+3)
13. Write a function to get lucky number of given number
    1. Lucky number => sum of individual digits of given number
    2. If the sum is more than 9, again do sum of individual digits of this sum.
       1. i/p : 12345 => 6 ( i.e., 1+2+3+4+5 = 15, 1+5 = 6)
14. Write a function to get reverse of given number
15. Write a function to find whether the given number is palindrome or not
16. Write a function to find factorial of given number
17. Write a program to find ncr. Hint : ncr = ( n! / ( (n-r)! \* r!)
18. Write a function to find sum of individual digits of given number
19. Write a function to get reverse of given number
20. Write a function to find whether the given number is palindrome or not.
21. Write a function to convert given digit into the word format.
    1. If i/p is 1 -> output : One
    2. If i/p is 2 -> output : Two
22. Write a function to convert given number into word format.
    1. If i/p is 123 -> output : One Hundred Twenty Three

Printing \* or number in specific format

1. Write a program to print the \*s in the following formats

\*

\* \*

\* \* \*

\* \* \* \*



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\* \* \*

\* \* \* \*

\* \* \* \*

\* \* \*

\* \*

\*

* 1. 1

1 2

1 2 3

1 2 3 4

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| --- |
|  |

**String Operations**

1. Write a function to find the given two strings are equals or not.
2. Write a function to reverse the string
3. Write a function to find whether the given string is palindrome or not.
4. Write a function to count number characters in the given string.
5. Write a function to count number words in the given string
6. Write a function to count number of lower characters in the given string
7. Write a function to simulate trim function. (i.e., remove white spaces in the beginning and ending of the string if any)
8. Write a function to remove extra white spaces in the given sentence( If more than once white spaces there, remove it.)
   1. Ex input: Hello how are you?
   2. Output: Hello how are you?
9. Write a function to count how many number of times a particular character appears/present in the given string.

Ex: given string = “hello word”

Given character = ‘l’

Output: 2

1. Write a program to count how many number of times each character appears/present in the given string.

Ex: given string = “hello word”

Output:

h.....1

e.....1

l......2

o.....2

w....1

r.....1

d...1

Note: Do it after learning HashMap.

Arrays

Write a function to get biggest number in the given array.

Write a function to get index /position of biggest number in the given aray

Write a function to get sum of all the numbers in the given array

Write a function to search whether the given number is present or not in the given array (linear search and binary search)

Write a function to sort the given array (bubble sort/selection sort/ quick sort/ merge sort etc.,)

Write a function to merge two given arrays.

Write a function to insert an element in the array in given position

Write a function to delete an element from given position in the array.

Write a function delete given element from given array.