**Technical Aptitude Programs**

1. Programming question:

Write a program to remove all duplicates from a given String without using built in methods.

1. .Write a program to remove all the white spaces in the string
2. Write a java program to Convert lowercase to uppercase and uppercase to lower case Without using built in functions.
3. Write a program to Convert signed integer to String.
4. Write a program to print 2D array
5. Write a program to count the number of character in the given String without using length() Method.
6. Write a program to count the number of Vowels and Consonants in given String
7. Write a function that returns a string in which firstname is swapped with last name.

Example(Input --> Output)

"john McClane" --> "McClane john"

9 Write a program to find the frequence of a given character in a String

10 Given an array of integers, return a new array with each value doubled.

For example:

[1, 2, 3] --> [2, 4, 6]

Your function takes two arguments:

current father's age (years)

current age of his son (years)

Сalculate how many years ago the father was twice as old as his son (or in how many years he will be twice as old). The answer is always greater or equal to 0, no matter if it was in the past or it is in the future.

11 "Your task is to create a function that does four basic mathematical operations.The function should take three arguments - operation(string/char), value1(number), value2(number).

The function should return result of numbers after applying the chosen operation.('+', 4, 7) --> 11

('-', 15, 18) --> -3

('\*', 5, 5) --> 25

('/', 49, 7) --> 7"

12 write a program:-

"Jack really likes his number five: the trick here is that you have to multiply each number by 5 raised to the number of digits of each numbers, so, for example:

multiply(3)==15 // 3 \* 5¹

multiply(10)==250 // 10 \* 5²

multiply(200)==25000 // 200 \* 5³

multiply(0)==0 // 0 \* 5¹"