Practical Title :-
Write the python program to perform string operations.

Aim :-
Write a python program to compute following operations on string.
a] To display word with the longest length
b] To determine the frequency of occurrance of particular character in the string.
c] To check whether given string is palindrome or not.
d] To display index of first appearance of substring
e] To count the occurrance of each word in a given string

Pre - requisite :-
Basics of string operation.

Objectives :-
To understand the use standard library functions for the string operations.
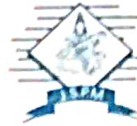To perform the string operations.

Input :-
One or two strings

Output :-
Resulting string after performing string operation.

Theory :-
string
string is defined as an array of characters or a pointer

to character.

Null - terminated strings

String is terminated by a special character which is called as null terminator or null parameter (10) so when you define a string you should be sure to have sufficient space for the null terminator.

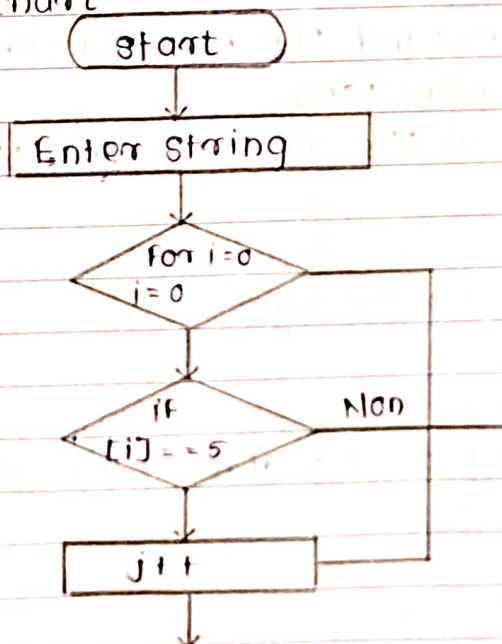The null terminator has value 0. ⟶

Declaring string

As in string definition we have 2 ways to declare a string first way is we declare an array of characters as follows

char S [ ] = " String"

or

char str [20];

String Operation Flowchart

```
            ┌─────────────┐
            │    start    │
            └──────┬──────┘
                   ↓
         ┌──────────────────┐
         │   Enter String   │
         └─────────┬────────┘
                   ↓
              ◇ for i=0 ◇
              ◇  i = 0  ◇
                   ↓
              ◇   if   ◇ ──── Non
              ◇ [i]==5 ◇
                   ↓
         ┌──────────────────┐
         │       j++        │
         └─────────┬────────┘
                   ↓
            string operation
```