

C Language

Project - 6

Filament

RED & WHITE MULTIMEDIA EDUCATION

Shaping "skills" for "scaling" higher...!!!

From the Headquarter of RNW

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Project Definition: Filament

Overview:

This project aims to develop a program in C language that demonstrates the use of string manipulation techniques. The program will perform different operations such as checking whether a string is a palindrome and counting the frequency of each character in a string.

Time Allocation:

- Total Duration: 1 Hour
- Total Marks: 10

Instructions:

1. Attempt all assigned tasks.
2. Make suitable assumptions wherever necessary.
3. Upload your exam task by uploading the project to GitHub and submitting the GitHub repository link which must have screenshots of your output in a README.md file.
4. This project is individual-based; copying code from classmates is prohibited.

Remember to follow the instructions provided professionally, make suitable assumptions wherever necessary, and avoid copying code or content from any unauthorized sources. Good luck with your project work!

Problem Statements:

Q.1 Palindrome Checker

Develop a program that checks whether a given string is a palindrome or not without using string functions.

Example:

Input: Enter any string: nayan

Output: The given string is a Palindrome.

Marking Criteria: (Total 5 Marks)

Logic: 3 Marks

Output: 2 Marks

Q.2 Frequency Counter

Extend the program to count the frequency of each character in a given string.

Example:



Input: Enter any string: development

Output:

Frequency of each letter:

d => 1

e => 2

v => 1

l => 1

o => 1

p => 1

m => 1

n => 1

t => 1

Marking Criteria: (Total 5 Marks)

Logic: 3 Marks

Output: 2 Marks

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BRING ON YOUR CODING ATTITUDE

