RED & WHITE
Multimedia Education

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

C Language

Project - 1

Multi-Utility Program

Project Definition: Multi-Utility Program

Overview:
This project aims to develop a multi-utility program in C language that performs various calculations. It includes a temperature converter, a gross salary calculator, and a triangle angle finder. Each utility serves a distinct purpose and demonstrates the use of basic C programming constructs.

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 Temperature Converter
Develop a program that converts temperature from degrees Celsius to Fahrenheit using the formula: °F = (9/5 × °C) + 32

Example:
Input: The temperature in Celsius: 38
Output: The temperature in Fahrenheit: 100.4

Marking Criteria: (Total 3 Marks)
Logic: 2 Mark
Output: 1 Mark

Q.2 Gross Salary Calculator
Create a program that calculates the gross salary by adding percentages of HRA, DA, and TA to the base salary as chosen by the user.

Example:

Input: Base Salary: 100, HRA=10%, DA=5%, TA=8%

Output: Gross Salary: Rs. 123

Marking Criteria: (Total 4 Marks)

Logic: 3 Mark

Output: 1 Mark

Q.3 Triangle Angle Finder

Write a program to find the third angle of a right triangle when two other angles are given.

Example:

Input: First angle: 65, Second angle: 45

Output: Third angle: 70

Marking Criteria: (Total 3 Marks)

Logic: 2 Mark

Output: 1 Mark

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BRING ON YOUR CODING ATTITUDE