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|  | **Assignment No. 1 Semester: Spring 2025**  **CS201P – Introduction to Programming(Practical)** | | **Total Marks: 20**  **Due Date: 2nd May 2025** |
| **Instructions**  **Please read the following instructions carefully before submitting the assignment:**  **It should be clear that your assignment will not get any credit if:**   * **Assignment is submitted after the due date.** * **Submitted assignment does not open or file is corrupt.** * **Assignment is copied (From the internet/students).** * **Assignment is submitted in any file format other than .cpp.**   **Recommended tool to develop Assignment**   * **Dev C++**   **Objectives:**  To enable students to understand and practice the concepts of:   * Basic structure of C++ * If/else statements * Switch statement   **Assignment Submission Instructions**  You must submit only a **.cpp** file on the assignments interface of CS201P from your LMS account. ***Assignments submitted in* any other format(image, pdf, doc, docx, etc) *will be scaled with* zero marks*.*** *So, check your solution file format before submission.*  For any query related to the assignment, please contact [CS201P@vu.edu.pk](file:///Y:\Fall%202024\Fall2024%20download\CS201P@vu.edu.pk). | | | |
| **Assignment** | |  | |

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| Write a C++ program that calculates the total fee for a person based on the number of hours spent at the gym. According to the gym’s pricing policy, the first hour is free of charge, and a fee of Rs. 200 is applied for each additional hour thereafter.  **The program should:**   * Prompt the user to enter the total number of hours they spent at the gym. * Validate the input using an if-else statement to ensure the number of hours is a positive integer. * Use an if-else or switch statement to: Check whether the person stayed for only one hour (in which case the fee is Rs. 0), or calculate the fee based on the number of additional hours beyond the first hour. * Finally, the program should display the total fee to the user.   Sample screenshots:        **Syllabus:**  The syllabus for this assignment includes all topics covered from Lab 1 to Lab 3.  **Note: Remember that printf and scanf are not allowed. if you use it in the program, your marks will be deducted.** |
| **Best of luck!** |