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|  | **Assignment No. 1 Semester: Fall 2022**  **CS201 – Introduction to Programming** | **Total Marks: 20**  **Due Date: 05th December 2022** |
| **Instructions**  **Please read the following instructions carefully before submitting assignment:**  **It should be clear that your assignment will not get any credit if:**   * **Assignment is submitted after due date.** * **Submitted assignment does not open or file is corrupt.** * **Assignment is copied (From internet/students).**   **Recommended tool to develop Assignment**   * **Dev C++**   **Objectives:**  To enable students to understand and practice the concepts of:   * Data Types and Variables * Arithmetic and Logical Operators * Expression Solving * If-else Statements * Repetition Structure * Function   **Assignment Submission Instructions**  You have to submit only **.cpp** file on the assignments interface of CS201 from your LMS account. ***Assignment submitted in* any other format(like doc, docx, pdf, giff,jpg etc.) *will be scaled with* zero mark*.*** *So, check your solution file format before submission.*  For any query related to assignment, please contact [cs201@vu.edu.pk](mailto:cs201@vu.edu.pk).    **Lectures: 1 to 10** | | |

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| **Assignment** |  |
| Write a C++ program to prompt the user to enter the Scale and then print the Employee’s Basic Pay, House Rent Allowance and Total Pay by using a function.  Calculations are given as:   |  |  |  |  | | --- | --- | --- | --- | | **Scale** | **Salary** | **House Rent(% of salary)** | **Utility Allowance** | | 1 | 50000 | 10 | 3000 | | 2 | 70000 | 10 | 5000 | | 3 | 90000 | 10 | 7000 |   **Note:** The scale should be between 1 and 3 otherwise the system will ask for the correct scale again.  As a result, you should have the following output:  If the user enter 1:    If the user enter 2:    If the user enter 3:    If the user enters input other than 1, 2 and 3. Then program should prompt the user to enter the correct scale of the employee again. | |
| Lectures Covered: 1 to 10  **Due date: 05th December,2022** | |