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|  | **Assignment No. 1 Semester: Fall 2023**  **CS201 – Introduction to Programming** | | **Total Marks: 20**  **Due Date: 15/11/2023** |
| **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).** * **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:   * Loops * Function   **Assignment Submission Instructions**  You must submit only **.cpp** file on the assignments interface of CS201 from your LMS account. ***Assignment submitted in* any other format *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). | | | |
| **Assignment** | |  | |

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| **Lectures: 1 to 9**  Write a C++ program that performs the following tasks:  Use only the provided Student ID: **BC123456789 (In case of not using this ID, marks will be deducted.)**  Your program must take the **numerical** part of the given Student ID **BC123456789 which is 123456789**.   * Save the numerical part of the given ID in a variable. * Double (Multiply by 2) each digit and print each doubled digit in **reverse** order. * Calculate sum of all the doubled digits. * Print the sum on screen.   Your program should use functions to complete the above tasks. You will define **doubleDigits()** function which will double of each digit and print, and **sumOfDoubledDigits ()** function to calculate the sum of the doubled digits.  Sample screen shot:  v |
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