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| animatedLOGO | **Assignment No. 2 Semester: Fall 2018**  **CS201 – Introduction to Programming** | | **Total Marks: 20**  **Due Date:**  **January 24, 2019** |
| **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/ from other students).** * **Assignment submitted in file format other than .cpp**   **Software allowed to develop Assignment**   * **Dev C++**   **Objectives:**  Student will be able to analyze and implement the concepts of:   * Bitwise operators * Class and objects * Getter and Setter functions of the class * Constructor   **Assignment Submission Instructions**  You have to submit only**.cpp** file on the Assignments interface of CS201 at VULMS. Assignment submitted in any other format will not be accepted and will be graded zero marks. | | | |
| **Assignment** | |  | |
| Write a C++ program that will create a class named **personalPassword**.  This class will have two data members:   1. **password of character type** 2. **character type pointer passptr**   The **personalPassword** class will have the following member functions:   1. **The default constructor** 2. **setter and getter functions for the password** 3. **passEncrpyt() which convert the user entered password into encrypted form** 4. **passDcrpyt() which convert back the encrypted password into the original password**      * Default constructor will initialize all data members with default values. The message **“Default constructor called… and the default value of each data member** should be displayed whenever an object will be created using default constructor.(See the sample output) * In main() function, create **an object** of class **personalPassword** by using the default constructor. * With the help of setter function, first you will set value of password and then with the help of getter function, you will display the actual password. * Then call the passEncrpyt and passDcrpyt function in order to display the password in encrypted and decrypted form respectively.   Sample output for the program is shown below:  **Sample Output:**    Note: You have to use the **bitwise** operator (Exclusive OR) in order to generate the password in the encrypted and decrypted form. | | | |
| **Deadline:**  **Assignment must be uploaded on or before January 24, 2019. NO solution will be accepted via email after the due date.** | | | |