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| animatedLOGO | **Assignment No. 03 Semester Fall 2019**  **CS508 - Modern Programming Languages** | **Total Marks: 20**  **Due Date:16 January 2020** |
| **Instructions**  **Please read the following instructions carefully before solving & submitting assignment:**  It should be clear that your assignment will not get any credit if:   * The assignment is submitted after due date. * The submitted assignment does not open or file is corrupt. * The assignment is completely or partially copied from (other student, handouts or internet). * Student ID is not mentioned in the assignment File or name of file is other than student ID. * The assignment is not submitted in .rar format.  |  | | --- | | **Submission details**  Following Files Must be submitted in a single .**zip** or .**rar** file.   * Code file(s) .**java** file only * A .**gif** file which shows working of your Application (*For Recording .gif a software named Screentogif is uploaded on LMS, or you can use any other gif recording tool as well*)   You are not required to submit the **complete project**, only copy these files from project folder. Please note if you submit doc or txt file you will be awarded 0 marks. Make sure to write your own **VU ID** in the assignment file(s) otherwise assignment will not be accepted. |  If you do not submit any of the above mentioned file 50% marks per file will be deducted.Objective The objective of this assignment is to give hands on practice on Java programming language.  **Lectures Covered: This assignment covers Lecture # 27 – 31** | | |
| **Problem Statement:**  **You are required to create a multithreaded java console application which will read a text file and write processed output in another text file.**   * The program will be able to read the text file provided named input.txt using a separate thread. * Calculate the number of characters in the file as per your student id. * Last number of your student id is the character your program will calculate from the given list below.  |  |  |  |  | | --- | --- | --- | --- | | Last Number in ID | Character to calculate | Last Number in ID | Character to calculate | | 0 | ! | 5 | & | | 1 | @ | 6 | ( | | 2 | # | 7 | ) | | 3 | $ | 8 | \_(Underscore) | | 4 | % | 9 | = |  * Output the result on the screen. * Create a new thread which will create an output file and store the result in that file.   **Output.gif** has been attached with this Assignment file please observe this file carefully your program’s output must be like this output file. | | |