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| animatedLOGO | **Assignment No. 03Semester 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.

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| **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.ObjectiveThe 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.

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| --- | --- | --- | --- |
| 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. |