

Instructions:

- Create a separate java class file for each class.
- Zip the complete project and submit the .zip file.
- The general rubrics are given below:

Description	Max. Marks
Coding style Use the best practices for writing the code. The code is well organized and very easy to follow.	20%
Logic Student has used the effective programming logic for solution and demonstrates the appropriate concept in respective task.	60%
Results The program is error-free and generates the expected results as per the specifications.	20%

Task:

Write a program that edits a text file to display each complete sentence with a period at the end in a separate line. Your program should work as follows: Ask the user to input file name containing sentences separated with a period (sentences may be in single line as a paragraph contains multiple sentences). Create a temporary file, copy from the source file to a temporary file and perform the required operation (write all sentences at a different line without a period). Copy the contents of the temporary file back into the source file. Use a method (or methods) in the class `File` to remove the temporary file.

You will also want to use the class `File` for other things in your program. The temporary file should have a name that is different from all existing files so that the existing files are not affected (except for the file being edited). Your program will ask the user for the name of the file to be edited. However, it will not ask the user for the name of the temporary file but will instead generate the name within the program. You can generate the name any way that is clear and efficient. One possible way to generate the temporary file is to start with an unlikely name, such as "Temp1", and to append a digit, such as '1', until a name is found that does not name an existing file.