

Lab9 — bhuvanakanakam@Poseidon — ..ming/Lab/Lab9 — -zsh — 80x24

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Last login: Wed Nov 15 23:17:44 on ttys000
[+] ~ cd documents
[+] documents cd college
[+] college cd semester5
[+] semester5 cd CS3105-objectOrientedProgramming
[+] CS3105-objectOrientedProgramming cd Lab
[+] Lab cd Lab9
[+] Lab9 javac FileMerger.java
[+] Lab9 java FileMerger
Data has been successfully merged and averages calculated.
[+] Lab9
```

FileMerger.java

```
/* bhuvana kanakam se21ucse035
   Lab 09 - nov 13, 2023 */

import java.io.*;

public class FileMerger {
    public static void main(String[] args) {
        try {
            String[] inputFiles = {"file1.txt", "file2.txt", "file3.txt"};
            String outputFile = "output.txt";
            mergeFiles(inputFiles, outputFile);

            System.out.println("Data has been successfully merged and averages calculated.");
        } catch (IOException e) {
            e.printStackTrace();
        }
    }

    private static void mergeFiles(String[] inputFiles, String outputFile) throws IOException {
        if (inputFiles == null || inputFiles.length == 0) {
            throw new IllegalArgumentException("Input files must be specified.");
        }

        try (OutputStream outputStream = new FileOutputStream(outputFile);
             BufferedWriter writer = new BufferedWriter(new OutputStreamWriter(outputStream))) {

            double[] columnSums = null;
            int rowCount = 0;

            for (String inputFile : inputFiles) {
                try (BufferedReader reader = new BufferedReader(new FileReader(inputFile))) {
                    String header = reader.readLine();
                    if (rowCount == 0) {
                        writer.write(header + "\n");
                    }

                    String line;
                    while ((line = reader.readLine()) != null) {
                        String[] values = line.split("\\s+");

                        if (rowCount == 0) {
                            columnSums = new double[values.length];
                        }
                        for (String value : values) {
                            try {
                                double numericValue = Double.parseDouble(value);
                                // Only include numeric values in the sum
                                for (int i = 0; i < values.length; i++) {
                                    columnSums[i] += numericValue;
                                }
                            } catch (NumberFormatException e) {
                                // Skip non-numeric values
                            }
                        }
                    }
                }
            }

            // Write the final sums to the output file
            writer.write(columnSums[0] + " " + columnSums[1] + " " + columnSums[2] + "\n");
        }
    }
}
```