Programowanie w języku JAVA Laboratorium 5 Marcin Godfryd grupa 31

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import java.util.regex.*;
public class WordCount {
   public static void main(String[] args) {
        if (args.length != 2) {
           System.err.println("java WordCount <number of threads>
        int numberOfThreads;
            numberOfThreads = Integer.parseInt(args[0]);
        } catch (NumberFormatException e) {
            System.err.println("Liczba watków musi być liczba całkowitą.");
        String filePath = args[1];
        Path file = Paths.get(filePath);
            System.err.println("Taki plik nie istnieje: " + filePath);
            new WordCounter(numberOfThreads, file).countWords();
        } catch (IOException | InterruptedException e) {
            System.err.println("Błąd działania aplikacji: " +
e.getMessage());
   private final ConcurrentHashMap<String, Integer> wordCounts = new
   private final ExecutorService executor;
   private final ConcurrentHashMap<Integer, Integer> linesPerThread = new
ConcurrentHashMap<>();
    public WordCounter(int numberOfThreads, Path file) {
        this.numberOfThreads = numberOfThreads;
        this.file = file;
        this.executor = Executors.newFixedThreadPool(numberOfThreads);
   public void countWords() throws IOException, InterruptedException {
        for (int i = 0; i < lines.size(); i++) {</pre>
            executor.execute(new WordCountTask(lines.get(i), threadIndex,
```

```
printResults();
System.out.println("Thread " + threadId + ": " + lineCount));
       wordCounts.entrySet().stream()
                .sorted(Map.Entry.comparingByKey())
                .forEach(entry -> System.out.println(entry.getKey() + " " +
entry.getValue()));
class WordCountTask implements Runnable {
   private final ConcurrentHashMap<String, Integer> wordCounts;
   private final Map<Integer, Integer> linesPerThread;
ConcurrentHashMap<String, Integer> wordCounts, Map<Integer, Integer>
           word = word.replaceAll("[^a-zA-Z]", "").toLowerCase();
            if (word.length() > 1) {
               wordCounts.merge(word, 1, Integer::sum);
        linesPerThread.merge(threadIndex, 1, Integer::sum);
```

```
PS C:\Projects\Java\java-labs-studies> java WordCount.java 2 text.txt
Thread 0: 1
Thread 1: 1
is 1
sample 2
text 2
this 1
```

