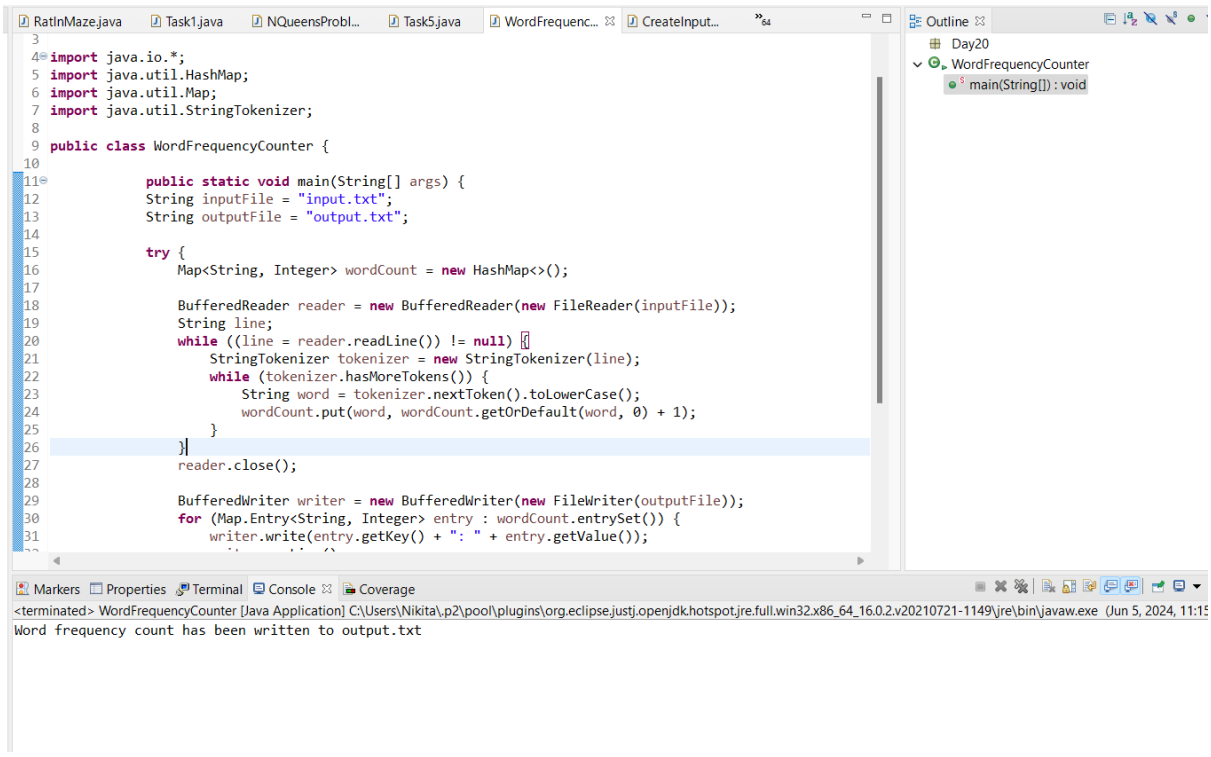
Task 1: Java IO Basics

Write a program that reads a text file and counts the frequency of each word using FileReader and FileWriter.

```java
package Day20;


import java.io.*;
import java.util.HashMap;
import java.util.Map;
import java.util.StringTokenizer;

public class WordFrequencyCounter {

                public static void main(String[] args) {
            String inputFile = "input.txt";
            String outputFile = "output.txt";

            try {
                Map<String, Integer> wordCount = new HashMap<>();

                BufferedReader reader = new BufferedReader(new FileReader(inputFile));
                String line;
                while ((line = reader.readLine()) != null) {
                    StringTokenizer tokenizer = new StringTokenizer(line);
                    while (tokenizer.hasMoreTokens()) {
                        String word = tokenizer.nextToken().toLowerCase();
                        wordCount.put(word, wordCount.getOrDefault(word, 0) + 1);
                    }
                }
                reader.close();

                BufferedWriter writer = new BufferedWriter(new FileWriter(outputFile));
                for (Map.Entry<String, Integer> entry : wordCount.entrySet()) {
                    writer.write(entry.getKey() + ": " + entry.getValue());
                    writer.newLine();
                }
                writer.close();

                System.out.println("Word frequency count has been written to " + outputFile);
            } catch (IOException e) {
                e.printStackTrace();
            }
        }
    }
```


RatInMaze.java
Task1.java
NQueensProbl...
Task5.java
WordFrequenc...
CreateInput...
Outline
Day20
WordFrequencyCounter
main(String[]) : void
import java.io.*;
import java.util.HashMap;
import java.util.Map;
import java.util.StringTokenizer;
public class WordFrequencyCounter {
public static void main(String[] args) {
String inputFile = "input.txt";
String outputFile = "output.txt";
try {
Map<String, Integer> wordCount = new HashMap<>();
BufferedReader reader = new BufferedReader(new FileReader(inputFile));
String line;
while ((line = reader.readLine()) != null) {
StringTokenizer tokenizer = new StringTokenizer(line);
while (tokenizer.hasMoreTokens()) {
String word = tokenizer.nextToken().toLowerCase();
wordCount.put(word, wordCount.getOrDefault(word, 0) + 1);
}
}
reader.close();
BufferedWriter writer = new BufferedWriter(new FileWriter(outputFile));
for (Map.Entry<String, Integer> entry : wordCount.entrySet()) {
writer.write(entry.getKey() + ": " + entry.getValue());
Markers
Properties
Terminal
Console
Coverage
<terminated> WordFrequencyCounter [Java Application] C:\Users\Nikita\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_16.0.2.v20210721-1149\jre\bin\javaw.exe (Jun 5, 2024, 11:15
Word frequency count has been written to output.txt