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package it.polito.bigdata.spark.exercise30anonymousclass;

import org.apache.spark.api.java.*;
import org.apache.spark.api.java.function.Function;
import org.apache.spark.SparkConf;

public class SparkDriver {

    public static void main(String[] args) {

        String outputPath;
        String inputPath;

        inputPath=args[0];
        outputPath=args[1];

        // Create a configuration object and set the name of the application
        SparkConf conf=new SparkConf().setAppName("Spark Exercise #30");

        // Create a Spark Context object
        JavaSparkContext sc = new JavaSparkContext(conf);

        // Read the content of the input file
        // Each element/string of the logRDD corresponds to one line of the
input file
        JavaRDD<String> logRDD = sc.textFile(inputPath);

        // Solution based on an named class
        // An object of the FilterGoogle is used to filter the content of the
RDD.
        // Only the elements of the RDD satisfying the filter imposed by means
        // of the call method of the FilterGoogle class are included in the
        // googleRDD RDD
        JavaRDD<String> googleRDD = logRDD.filter(
            new Function<String, Boolean>() {
                // The call method receives one element (one string)
of the
                // logRDD at a time and return true if the element
contains the word google.
                // Otherwise, it returns false
                public Boolean call(String x) {
                    return x.toLowerCase().contains("google");
                }
            }
        );

        // Store the result in the output folder
        googleRDD.saveAsTextFile(outputPath);

        // Close the Spark context
        sc.close();
    }
}

```