OBJECT ORIENTED PROGRAMMING

PROJECT REPORT

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Main description of the program

This document complements the documentation generated by the *javadoc* tool and the self-assessment form, so it should read as so.

This project does nearly everything it should do except for the directed tree. That is to say that the train file is correctly read (and stored), the graph is generated, weighted (in an incorrect manner, it seems) and directed, the algorithm used to do it (Prim) works, the test file is correctly read (line by line) and a classification is produced and printed for each of the train entries.

We also are aware that many of the methods and classes are implemented not in the most efficient and object-oriented way. For example, we read the whole train file, store its content, and the store the countings by iterating through the information we stored. Obviously it could have been done differently, in a dynamic way. That is, reading a file entry, process it, and store only the countings, instead of the whole file. The reason for our implementation was simple. We started by implementing the simplest way to retrieve all the information from the train file, which is storing it and calculate the maximum values of each attribute and the class variable. Then we build the data structures accordingly.

Also, we did not create any subclasses extending any of the classes we made, since we found no apparent advantage in doing so, in the case of our implementation. Probably, with more time to do it, we would have given this fact a more thorough thought.

We are disappointed with the fact that the main objective of the program was not met, since a lot of work was put into it and we are at a tiny distance of solving it. Again, unfortunately, we were forced to deliver this version of the project due to time issues.