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# Folders Description

The distribution has 9 folders which are described below:

|  |  |
| --- | --- |
| Distribution | Contains the program jar besides the additional jars used by the program |
| Documentation | Contains this installation manual, UML design and Use Cases |
| InputFiles | Contains the input files, both for normal use and test use |
| Logs | Contains the logs files used by the program |
| MarsRover\_NetbeansProject | The project developed with Netbeans with source code and libs |
| OutputFiles | Contains the output files where the program writes the results, only for normal use |
| PropertiesFiles | Contains the properties files that define the locations of the files described above |
| Running Bats | Contains the bat files to execute easily the program |
| SourceCode | Source Code with java classes |

The location of Input, Output and Log Files can be changed re-defining the properties files. The location of these properties files can be also changed modifying the bats files.

# Install Description

The program doesn’t need to be copied on a specified path, but when installed the property file must be defined.

The program use a properties file with this entries:

logFile : log file to write the messages

C:\\Users\\JordiL\\Desktop\\Blueliv\\project\\MarsLogsTest.log

outFile : output file to write the results

C:\\Users\\JordiL\\Desktop\\Blueliv\\project\\MarsOutput.log

inputFile : input data file for the rovers and plateau, defined with double bar

C:\\Users\\JordiL\\Desktop\\Blueliv\\project\\input.txt

clearOutputFile : TRUE in each execution the Output file is clean, FALSE in each execution the output is append to the file

showClassInfo : TRUE the program specifies the class, method and line where the log entry has been produced

showLogs : TRUE the program writes logs messages in the log file

# Working Use

The application has 2 dynamic working methods, the normal one and testing one, besides a test method that has 3 fixed tests.

To run each of the three methods a bat file is included.

## Fixed Test

This method doesn’t use the output file even when it’s defined in the properties file.

For the fixed test it’s launched executeTestFix.bat which perform this test

7 5

7 2 E

MMM

7 2 S

LLL

7 2 S

LLLMLMMRMMMRMLMMMR

Getting this result shown on the log file

[2016/03/24 12:54:19] ---------------------------------

[2016/03/24 12:54:19] Start Test

[2016/03/24 12:54:19] Test Rover0:7 2 E;MMM;Test OK;obtenido:7 2 E

[2016/03/24 12:54:19] Test Rover1:7 2 S;LLL;Test OK;obtenido:7 2 W

[2016/03/24 12:54:19] Test Rover2:7 2 S;LLLMLMMRMMMRMLMMMR;Test OK;obtenido:0 1 N

[2016/03/24 12:54:19] ---------------------------------

## Normal Execution

This method uses input, output and log files defined on properties file.

The other mode is the normal one which having an input like this

5 5

1 2 N

LMLMLMLMM

3 3 E

MMRMMRMRRM

Gives this output file

1 3 N 5 1 E

## Dynamic Test Execution

This method uses input, output and log files defined on properties file, but it’s differentiated by the program with a line started with *TestResultExected:* that gives the expected result for the test.

For example for this input

7 5

3 3 N

RMLMLLMM

0 1 E

MMLMMMLMMMM

TestResultExected:4 2 S 0 4 W

The next output is got

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Test OK

ExpectedResult: 4 2 S 0 4 W

ObtainedResult: 4 2 S 0 4 W

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