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- Open port
- Start logging / Stop logging
- Close port

Advanced tasks

- Set read filename
- Calculate average in given period

Print usage

• At application startup the following message should be shown:

Todo application

Commands:

- Show the command list
- Exit from the program
- List available ports Set port name 1
- p
- Set write filename
- Open port
- Start logging / Stop logging
- Close port
- Set read filename
- Calculate average in given period

Show the command list

- if the user presses the "h" button
- the program should print out the command list (like at startup)

Exit from the program

- if the user presses the "e" button
- the program exits

List available ports

- if the user presses the "I" button
- the program should list out the available serial ports

Set port name

- if the user presses the "p" button
- the program should ask the user to enter a port name
- the user input errors should be handled

Set write filename

- if the user presses the "w" button
- the program should ask the user to enter a file name
- this file will be used as the log file
- the user input errors should be handled

Open port

- if the user presses the "o" button
- the program should open the previously set COM port
- the errors should be handled

Start logging / Stop logging

• if the user presses the "s" button

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- the program should start logging from the opened port into the set write file
- if the program is already logging, then the logging should be stopped
- the errors should be handled
- the logfile shold look like this:

```
2017-05-31 10:46:22
2017-05-31 10:46:23 23.7
2017-05-31 10:46:24 23.8
2017-05-31 10:46:25 23.9
2017-05-31 10: 46: 26 23. 2
2017-05-31 10: 46: 27 23. 5
2017-05-31 10:46:28 23.4
```

Close port

- if the user presses the "c" button
- the program should close the opened port
- the errors should be handled

Set read filename

- if the user presses the "r" button
- the program should ask the user to enter a file name
- this file will be used as the input file for the average calculation
- the user input errors should be handled

Calculate average in given period

- if the user presses the "a" button
- the program should ask the user to enter a date period
- the program then reads data from the read file and calculates the average temperature in the given period
- the errors should be handled

Solution

Solution

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