Lab5 - FYS4240

In this document you can find answers to the following tasks for lab5:

- **Exercise 4**

As for hand-ins, the following files can be found:

- Code from exercise 2 and exercise 3
- `Example_Binary_File.dat` used for reading from binary file in Exercise 2 folder
- The application (`FileReader.exe`-file) used in exercise 5, which can be found in the builds folder

Exercise 4 – Extending the UDP send program

Extending our UDP program to include writing:

- **"Start"-case of the UDP send loop:** open/create/ a file with a file reference with operation set to "create" and access set to "write-only". The refnum out is then connected to a shift register in the UDP sender loop.
- **"SendData"-case, located UDP send loop:** The shift register connected to the refnum out of the previous file-function, file reference is connected to a "write binary file"-function. In the input named "data", this terminal is connected to the output of a "Type Cast"-function, where converted data is set to DBL-format by default since the inputted data belongs to the same format.
- **"Exit"-case, UDP send loop:** the "close file"-function takes in the file refnum as input. No output from the last function is necessary.

Note for all file-functions, the loop-structure for the UDP send loop has an additional shift register for the error in/out which are inputted and/or inputted in the file-functions.

I believe this implementation is enough to include writing of data to a binary file, where this is done in parallel with the data transmission over UDP, as the writing to the binary file does not take place over UDP.