HW # 8: due Wednesday 3/11 (midnight)

The Linux (Unix) copy program *(/bin/cp*) is used to specify command lines for copying files and directories (if interested, you can get the details from the man page by typing "man cp")

Example usage: cp file1.dat file2.dat   -- this commands copies file1.dat to file2.dat

 In HW # 8 you will complete a custom (simplified) implementation of the copy program which we will call *block_cp*. *block_cp* is highly simplified version of the *cp* program, and can be used to make copies of files, but unlike the *cp* program *block_cp* will accept a block size such that the file specified will be copied (read from the source file, and written to the destination file) one block at a time. (note: block size refers to the size of an allocated buffer of size used by in the *block_cp* implementation

When complete, your *block_cp* program should work with following commands:

```
./block_cp  source-file  dest-file  block-size
./block_cp  ./foo.txt  ./foo2.txt  4096      --  copy foo.txt to foo2.txt in 4096
                                                 blocks.
./block_cp  -v ./foo.txt  ./foo2.txt  4096  --  copy foo.txt to foo2.txt in 4096
                                                 blocks, and be verbose (print a
                                                 message to announce each block as
                                                 it read and written
```

```
Complete HW # 8 by following and completing the C++ code in:
```
https://mwcorley79.github.io/MikeCorley/lecture15/code/readfile_block.cpp.

You can download readfile_block.cpp with the code examples tarball here:

https://mwcorley79.github.io/MikeCorley/lecture15/code/lect14_examples.tar.gz

Please upload the code and screen shot of the output to Blackboard for HW # 8