

Assignment 4 Solutions

4.3 Simply move (copy) the datum byte in the File back onto itself; e.g. to check for zero the contents of a File called `FRED` then `movf FRED, f`. This will copy the contents of `FRED` back into `FRED` and on the way set the **Z** flag if `FRED`'s contents are `b'0000000'`. In any case this will not change these contents.

5.1 The first instruction gives `FILE + W` back in the Working register. The second function gives `FILE - W` which by substitution is `FILE - (FILE + W)` or just `-W`; that is the 2's complement of `W`. Note that the contents of `FILE` remains unchanged.