3/27/2020 Lect-08.html

Lecture 8 - MARIE instructions

First - One Hot Example

Code From Homework 2

This uses the extended instruction set specified on p257 (verison 5) of the book.

Similar C Code:

MARIE Code

```
L1,
        LoadI
                 Χ
        Output
        Load
                 Χ
        bbA
                 1
        Store
                 Χ
                 Χ
        LoadI
        SkipGt0
                            / OnLine use Skipins 0x400 - same instruction just different
        Jump L1
        Halt
        ORG 20
        DEC 22
                            / Counter of how many characters to output.
Χ,
_1,
        DEC 1
                            / 'H' Your values (clue: 48 is not correct for homework-02!)
hw,
        HEX 48
        HEX 49
                            / 'I'
        HEX 50
                            / 'P'
        HEX 51
        HEX 52
        HEX 53
        HEX 54
        HEX 55
        HEX 56
        HEX 0
```

3/27/2020 Lect-08.html