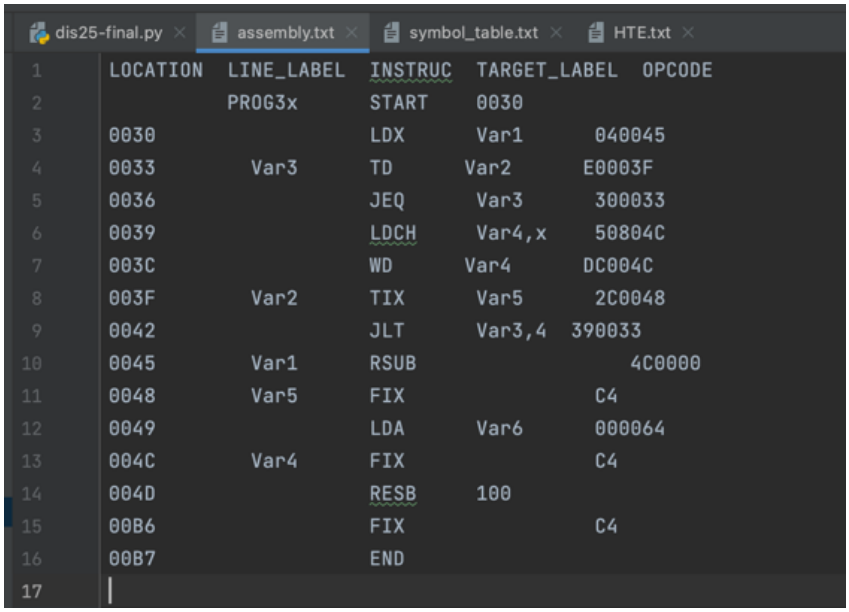
Disassembler Systems Project:

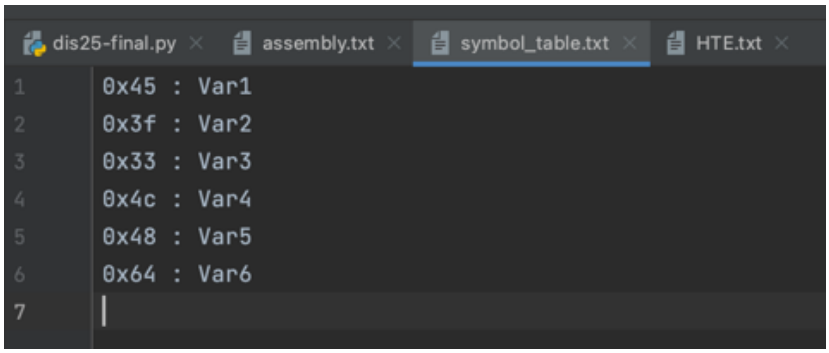
Design problems:

- Bytes, as the byte value may correspond an opcode.
- Word values may correspond labels/location counters.
- Distinguish between RESW/RESB, can only assume it is one type.
- Giving the labels meaningful names.
- There is no way to know what the immediate value in the modified format 3 instructions is, therefore, they are assumed in our code to be ‘4’.

Sample Run:


dis25-final.py
HTE.txt
HPROG3x000030000B7
T0000301D040045E0003F30003350804CDC004C2C00483900334C0000C4000064C4
T0000B1034C0000
T0000B601C4
E000030


dis25-final.py
assembly.txt
symbol_table.txt
HTE.txt
LOCATION LINE_LABEL INSTRUC TARGET_LABEL OPCODE
PROG3x START 0030
0030 LDX Var1 040045
0033 Var3 TD Var2 E0003F
0036 JEQ Var3 300033
0039 LDCH Var4,x 50804C
003C WD Var4 DC004C
003F Var2 TIX Var5 2C0048
0042 JLT Var3,4 390033
0045 Var1 RSUB 4C0000
0048 Var5 FIX C4
0049 LDA Var6 000064
004C Var4 FIX C4
004D RESB 100
00B6 FIX C4
00B7 END


dis25-final.py
assembly.txt
symbol_table.txt
HTE.txt
0x45 : Var1
0x3f : Var2
0x33 : Var3
0x4c : Var4
0x48 : Var5
0x64 : Var6