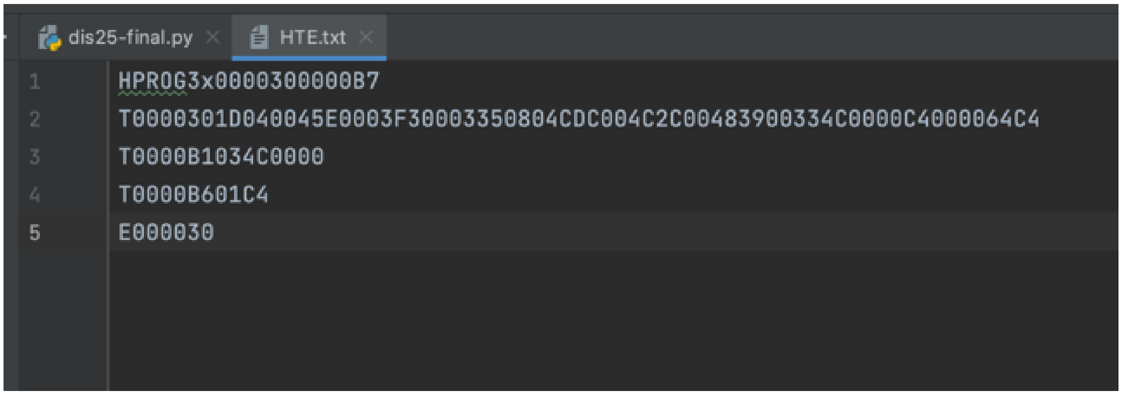
Disassembler Systems Project

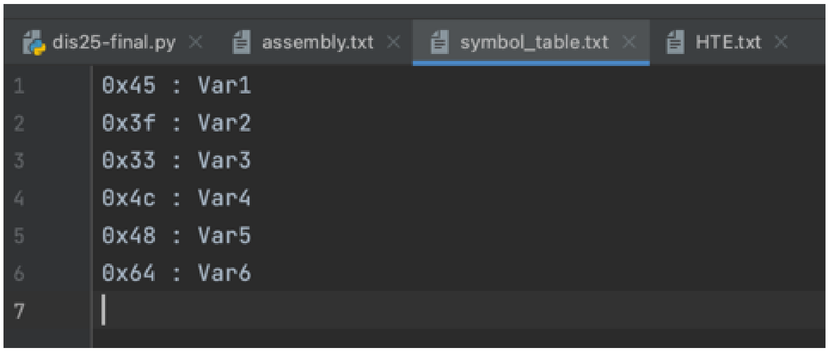
Design problems:

- 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’.

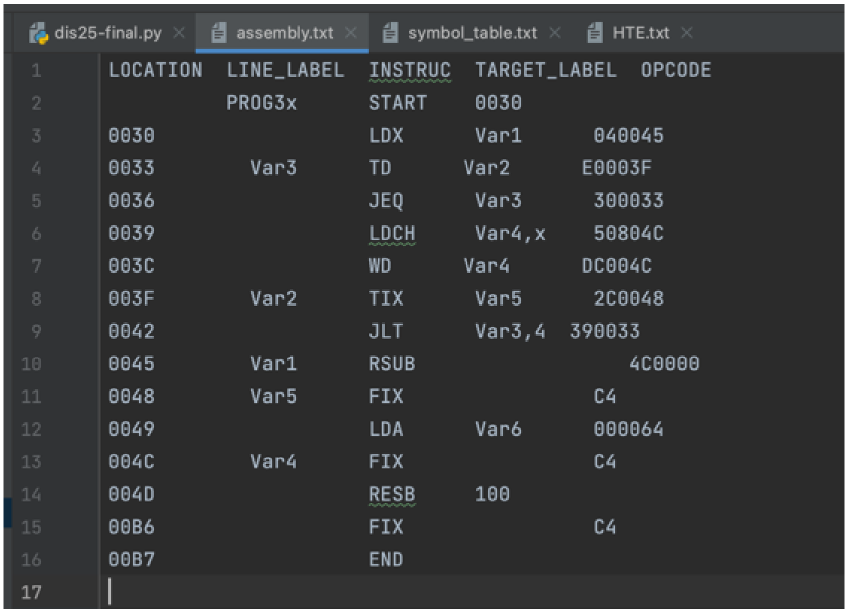
Sample run:



```
HPROG3x0000300000B7
T0000301D040045E0003F30003350804CDC004C2C00483900334C0000C4000064C4
T0000B1034C0000
T0000B601C4
E000030
```



```
0x45 : Var1
0x3f : Var2
0x33 : Var3
0x4c : Var4
0x48 : Var5
0x64 : Var6
```



```
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

```