**Arab Academy for Science and Technology**

**College of Language and Communication**

**Logo

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Systems Programming

(Report)

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1. **Statements on how to use our program:**

-python intermediate.py --data in.txt (input file)

- python pass\_one.py --data intermediate.txt (input file)

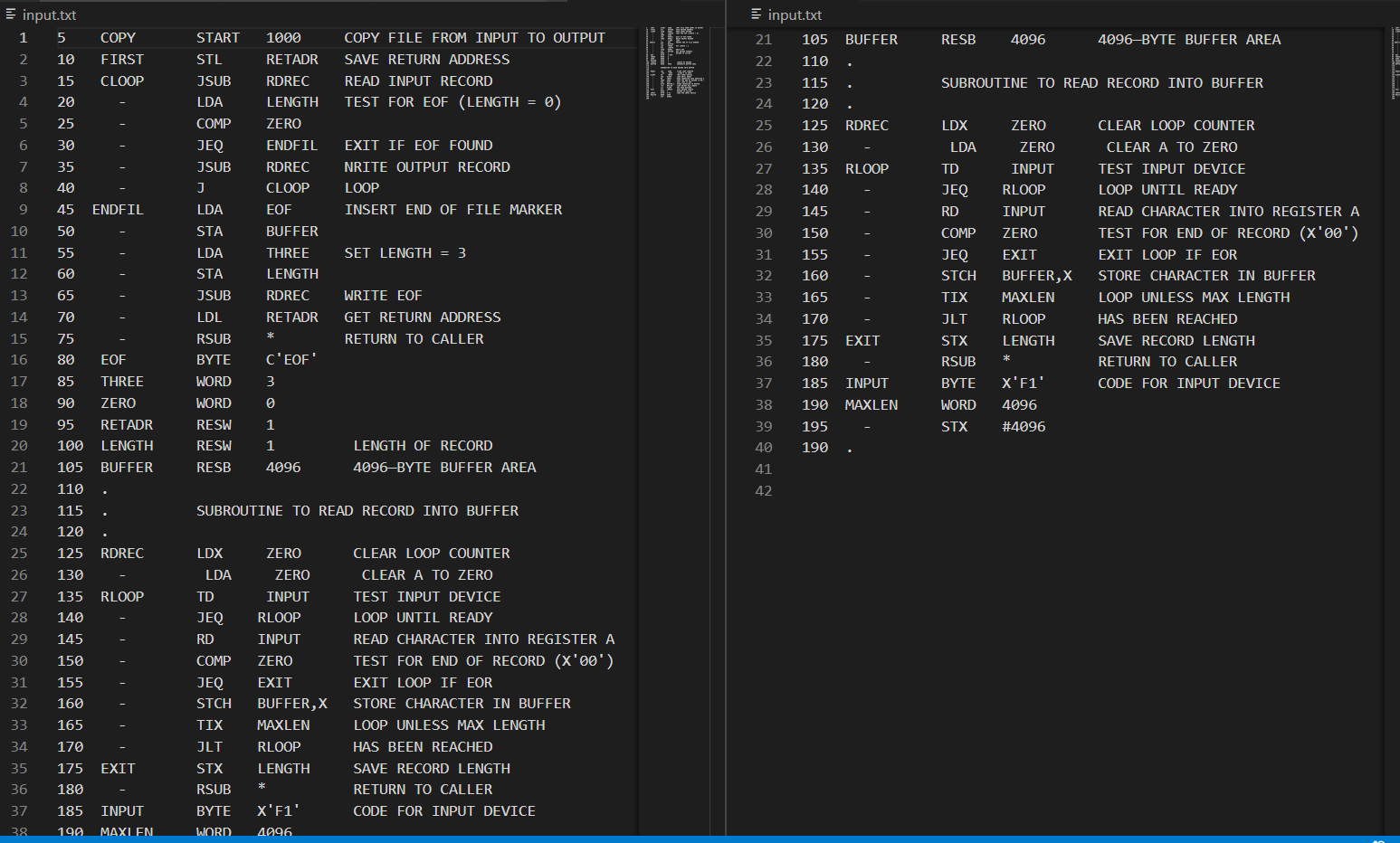
- python pass\_two.py --data out\_pass1.txt (input file)

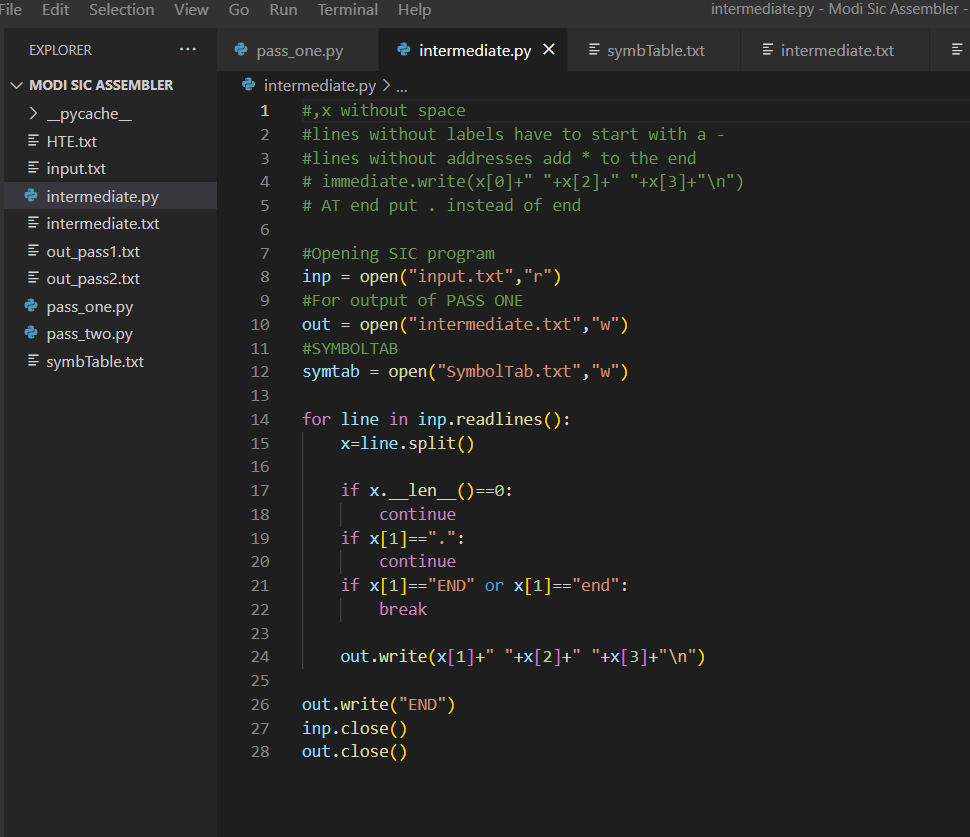
1. **Design issues:**

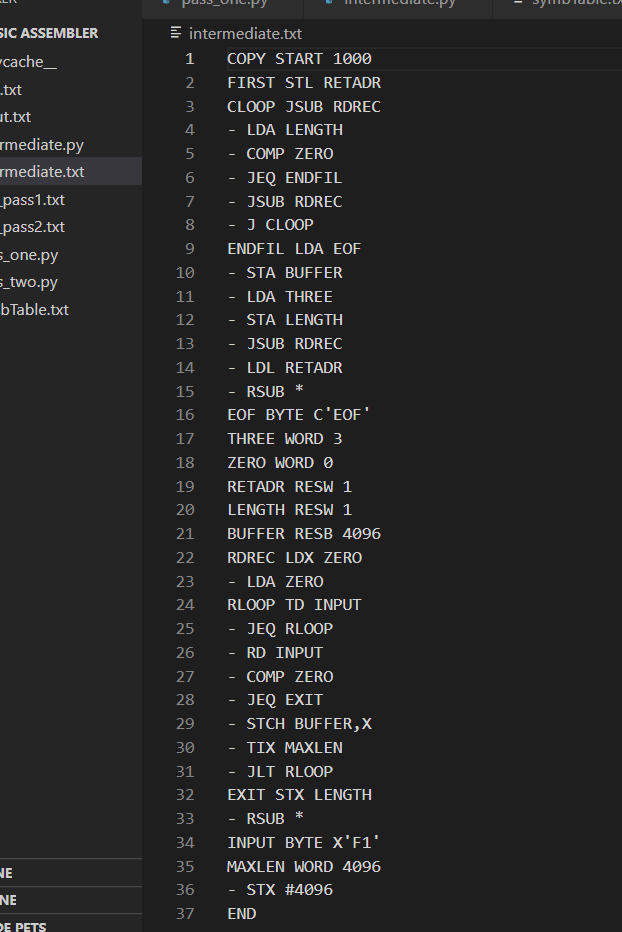
-white spaces in 3rd column and label column if it wasn’t replaced by a specific symbol an out of list index error will appear so any white spaces in columns must be replaced by symbols.

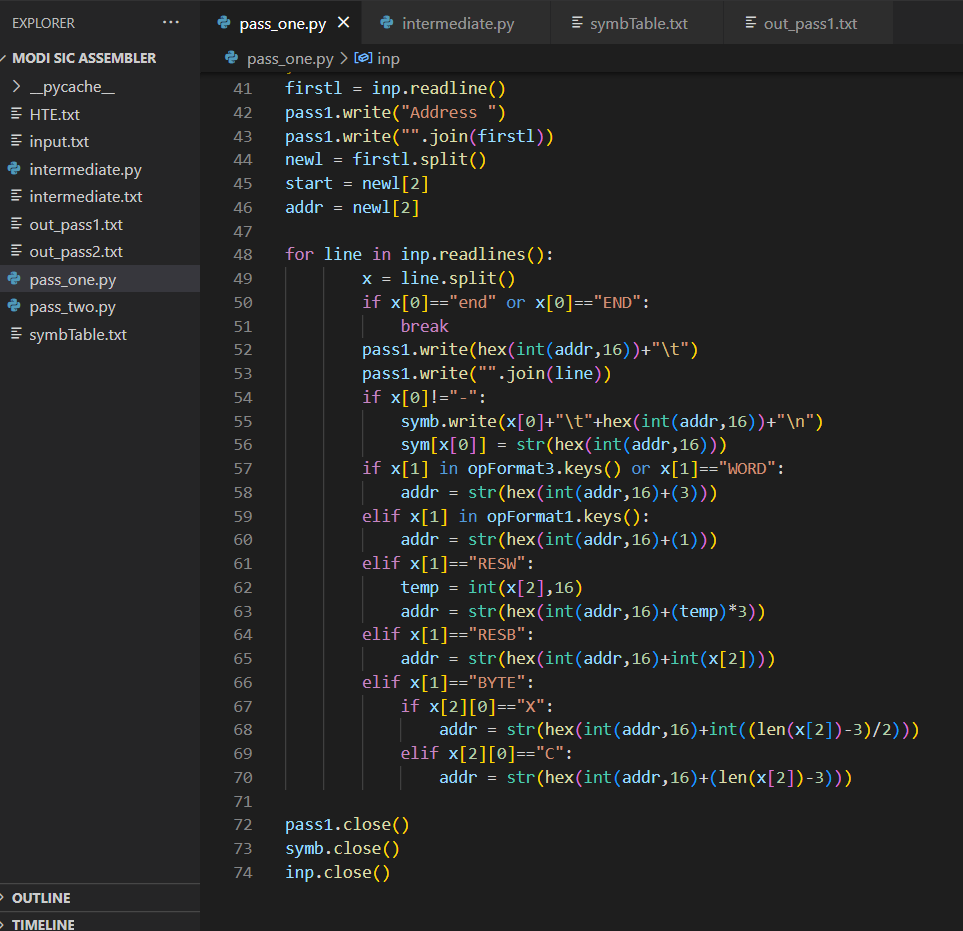
**Pass One:**

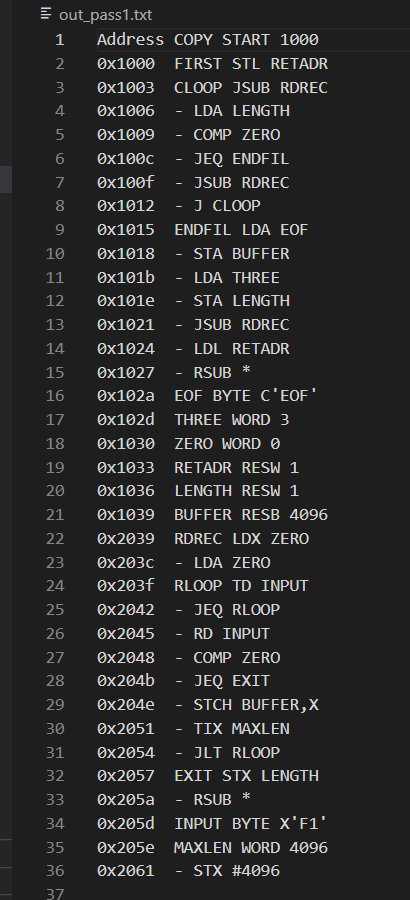
* Input File:



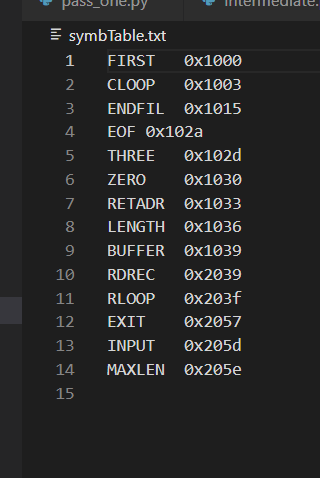
* Generating intermediate file Code:
* intermediate file:



* Pass one code to generate the corresponding location counter of the input Program:
* Pass one output:

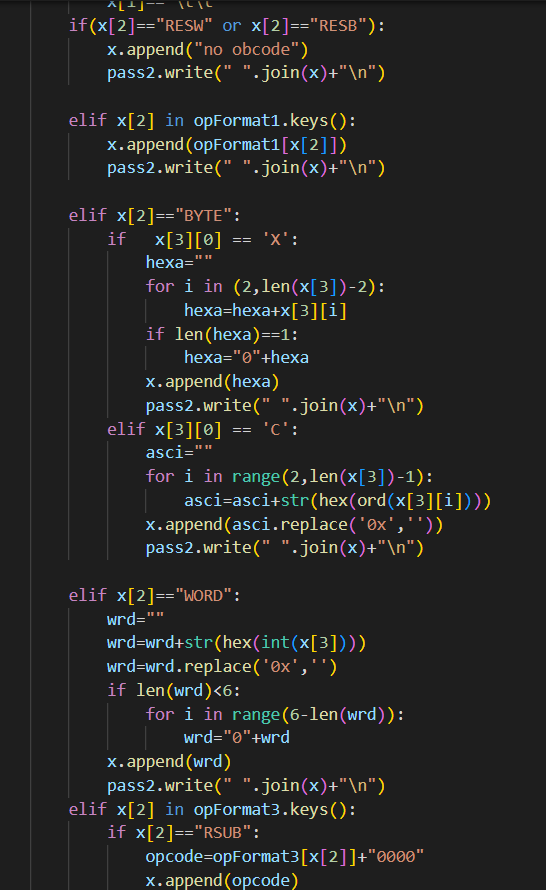


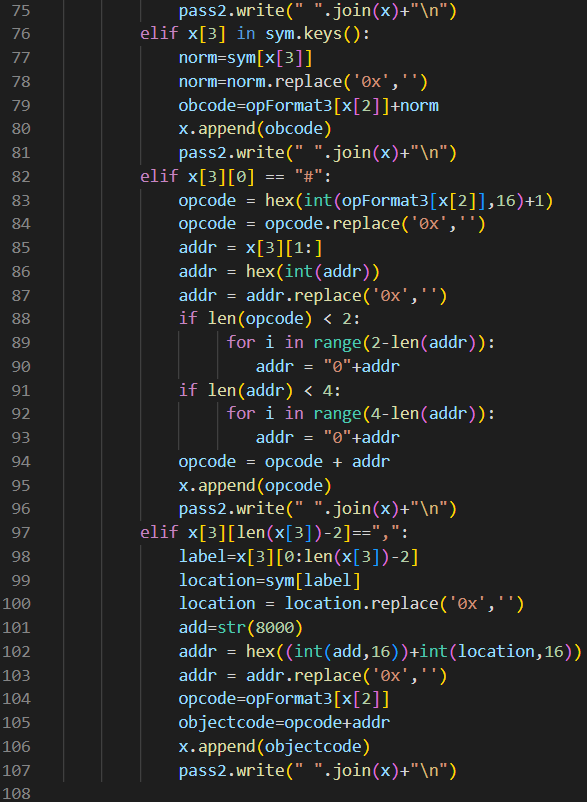
* Symbol table:

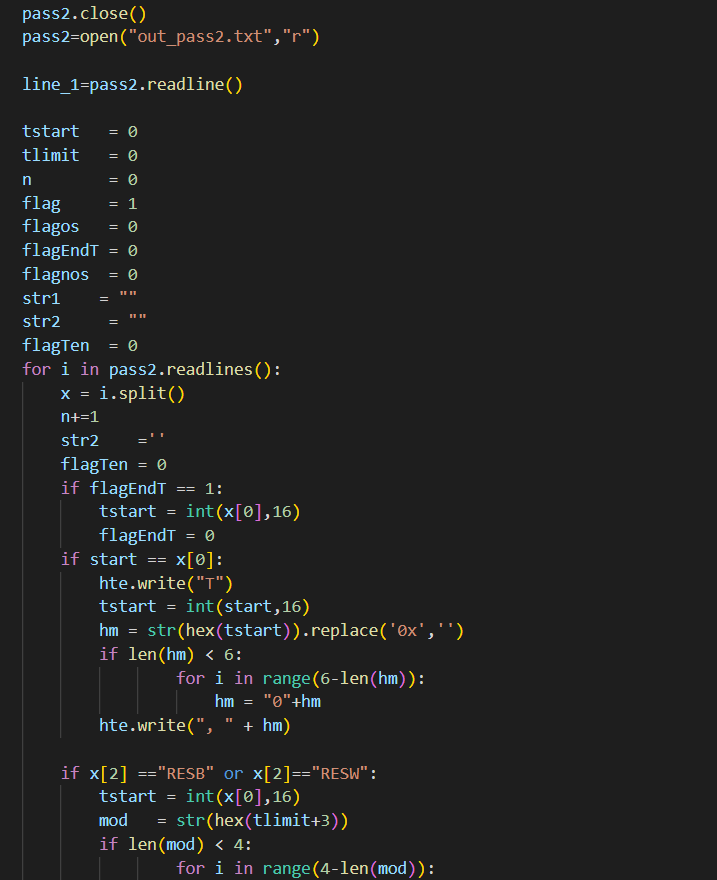


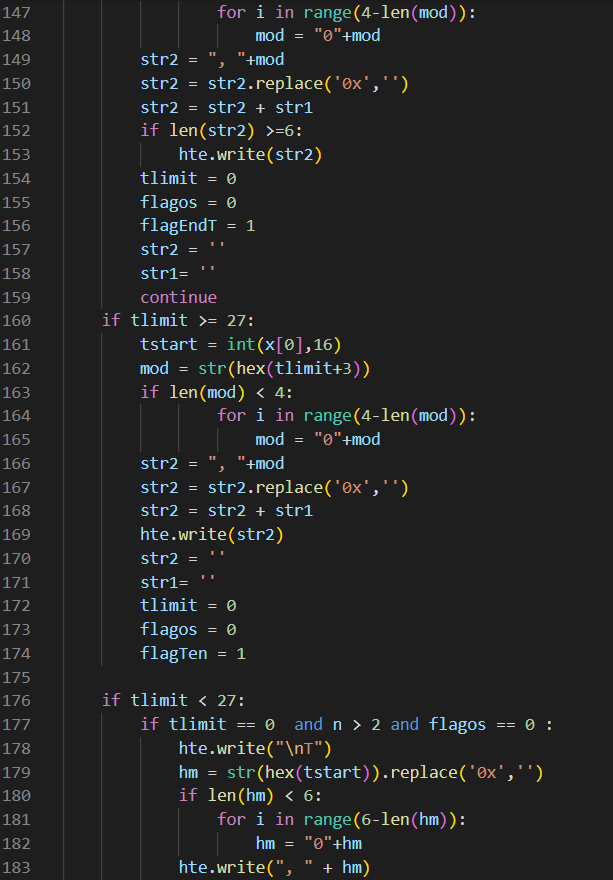
* Pass Two:

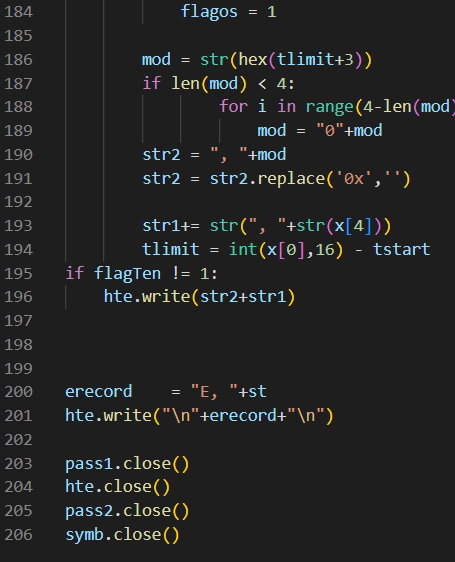




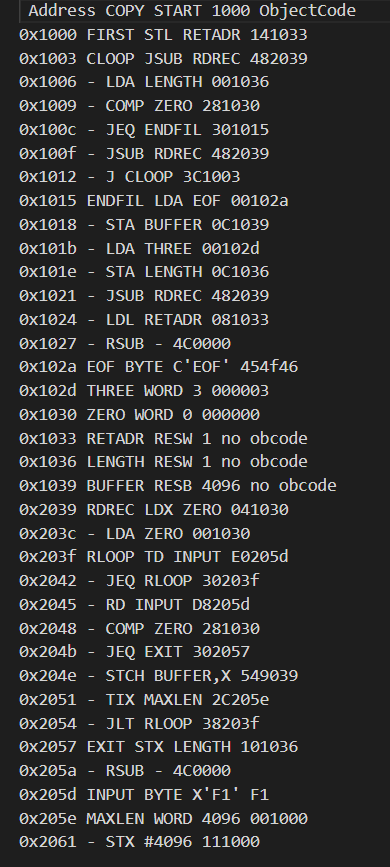








* Pass Two Output:



* HTE

