

Government Engineering College **Thrissur**

CS331 – System Software **Lab Documentation** **Exp10 – One Pass Assembler**

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Experiment 10: **One Pass Assembler**

Compilation of CodePrerequisite

- The code is provided in the **program.c** file along with its documentation. You just need to run it on any compiler.
- Compile like `gcc program.c`
`.\a.exe`
- The program will take an Input files **input.txt** containing assembly code and **optab.txt** simulate the one pass assembler and generate the output file as well as a symbol table.
- The I/O of the file is assembly code, space separated and **optab.txt** also space separated. Only limited commands and statements are supported.
- Two intermediate files will also be created.
- The output will be three files, result.txt, Output.txt and Symtab.txt.

Output Screenshots

result.txt

```
RESULT
H^COPY^001000^000012
T^001000^12^000000^23000010061009
T^1001^02^1006
T^1004^02^1009
E^001000
PS C:\Users\rejat\Desktop\Assignment\ss lab\e10> □
```

symtab.txt

```
≡ symtab.txt
1  |*  ALPHA
2  *  BETA
3  1006  ALPHA
4  1009  BETA
5
```

output.txt

≡ output.txt

```
1  | 0
2  23 0
3  1006 1001
4  1009 1004
5
```