

Government Engineering College **Thrissur**

CS331 – System Software **LabDocumentation** **Exp8 – Pass One of an Assembler**

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Submitted By,
Rejath T M
Roll No 50
TCR18CS050
GECT CSE S5

Experiment 8:
Pass One of an 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 file containing assembly code and simulate the pass one of the assembler and generate the output file as well as symbol table.
- The I/O of the file is assembly code, space separated. Only limited commands and statements are supported.
- The output will be two files, Output.txt and Symtab.txt.

Output Screenshots

```
PS C:\Users\rejat\Desktop\Assignment\ss lab\E8> gcc .\pass1.c
PS C:\Users\rejat\Desktop\Assignment\ss lab\E8> .\a.exe
LC::1000
1000 - LDA ALPHA
1003 - ADD ONE
1006 - SUB TWO
1009 - STA BETA
1012 ALPHA RESW 1
1015 ONE WORD 2
1018 TWO WORD 5
1021 BETA RESW 1
1024 - END -
Program Length : 24
PS C:\Users\rejat\Desktop\Assignment\ss lab\E8> █
```