

# **Government Engineering College** **Thrissur**

## **CS331 – System Software** **LabDocumentation** **Exp9 – Pass Two of an Assembler**

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### **Experiment 9:** **Pass Two 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 Inputs **input.txt** file containing assembly code, **optab.txt** containing operations codes, **symtab.txt** containing addresses of labels and simulate the pass two of the assembler and generate the output file as machine code
- The I/O of the file is assembly code, space separated. Only limited commands and statements are supported.
- The output will be **output.txt**.

## Output Screenshots

```
PS C:\Users\rejat\Desktop\Assignment\ss lab\> gcc .\program.c
PS C:\Users\rejat\Desktop\Assignment\ss lab\> .\a.exe
H^COPY^001000^000024
T^001000^24^001012^011015^051018^231021^000002^000005
E^001000
PS C:\Users\rejat\Desktop\Assignment\ss lab\> █
```