

System Programming Assignment 3

1. Design of a 8086 Simulator/Assembler which supports basic operations of a calculator (e.g. +, -, *, % etc.) following the working principle of One Pass Assembler
2. Design of a 8086 Simulator/Assembler which supports different loop constructs in C Programming language (e.g., while, do-while, for) following the working principle of Two Pass Assembler
3. Design of a 8086 Simulator/Assembler which supports macro-processor using C language following the working principle of Two Pass Assembler
4. Design a Text Editor which supports basic editing and file related operations (e.g., notepad)
5. Develop a keyboard driver for Bangla (e.g., Abhra)
6. Develop a keyboard driver for Hindi.
7. Design of a Simulator which supports the basic memory based operations of a loader and linker. (e.g. to show the stages of static / dynamic linking)