EXPERIMENT 7

AIM

DFA minimization using C program.

ALGORITHM

1. Start
2. Divide Q (set of states) into two sets. One set will contain all final states and the other set will contain non-final states. This partition is called P_0.
3. Initialize k = 1
4. Find P_k by partitioning the different sets of P_{k-1}. In each set of P_{k-1}, we will take all possible pair of states. If two states of a set are distinguishable, we will split the sets into different sets in P_k.
5. Stop when $P_k = P_{k-1}$ (No change in partition)
6. All states of one set are merged into one. No. of states in minimized DFA will be equal to no. of sets in P_k.
7. Stop

OUTPUT

gcc 11anaghasethu-p7.c
./a.out