Group-1 (Student ID: 1801001F-1801020M)

Marks: 40 Time: 1.20Hrs

Write a C program to recognize strings under 'b⁺ab*' over Σ={a, b}. (20)
Note: The logic will be based on the concept of finite automata. Don't use any other shortcut ways.

Sample Input	Sample Output	
Enter a string: ba	Accepted	
Enter a string: a	Rejected	
Enter a string: abbb	Rejected	
Enter a string: bbabb	Accepted	

2. Write a C program to construct a recursive descent parser for the following grammar:(20)

E -> **num T**

T -> * num $T \mid \epsilon$

Sample Input	Sample Output
Enter a string: 2*6\$	Accepted
Enter a string: 26*	Rejected