Group-2 (Student ID: 1801021F-1801046M)

Marks: 40   **Time: 1.20Hrs**

1. Write a C program to recognize strings those starting with 'b' and ending with 'c' over Σ={b,c}. **(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: bc	Accepted
Enter a string: bcb	Rejected
Enter a string: cbb	Rejected
Enter a string: bccbc	Accepted

2. Write a C program to compute FIRST for the following grammar: **(20)**
   S -> iEtSS'|d
   S'-> eS|ε
   E -> r

Sample Output
First(S)={i,d}
First(S')={e, ε}
First(E)={r}