

The screenshot shows a terminal window with the following interface elements:

- Top bar: File, Edit, Selection, View, Go, Run, ..., back arrow, forward arrow.
- Tab bar: PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL (underlined), PORTS.
- Left sidebar icons: Document, Search, Share, Help, and a folder icon.

The terminal output is as follows:

```
G:\Saurabh\CompilerDesign>g++ -o 22105126039_L05 22105126039_L05.cpp
G:\Saurabh\CompilerDesign>.\22105126039_L05
Enter number of productions: 4
Enter productions (e.g., E E+T):
A Aa
A b
B Bc
B d

Grammar after removing Left Recursion:
A -> bA'
A' -> aA'
A' -> epsilon
B -> dB'
B' -> cB'
B' -> epsilon

G:\Saurabh\CompilerDesign>
```



File Edit Selection View Go Run ...



PROBLEMS



G:\Saurabh\CompilerDesign>g++ -o 22105126039_L07 22105126039_L07.cpp



G:\Saurabh\CompilerDesign>.\22105126039_L07

Enter number of rules: 4

Enter rules (format: S → AB or A → # for epsilon):

S → AB

A → ab

B → cd

S → #



FIRST sets:

S: { # a }

A: { a }

B: { c }



FOLLOW sets:

S: { \$ }

A: { c }

B: { \$ }



G:\Saurabh\CompilerDesign>



File Edit Selection View Go Run ...

← →



PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS



G:\Saurabh\CompilerDesign>g++ -o 22105126039_L04 22105126039_L04.cpp



G:\Saurabh\CompilerDesign>.\22105126039_L04

Grammar: S -> aSb | epsilon

Enter string to check: aabb

String is VALID.



G:\Saurabh\CompilerDesign>



The screenshot shows a terminal window with the following content:

```
G:\Saurabh\CompilerDesign>g++ -o 22105126039_L06 22105126039_L06.cpp  
G:\Saurabh\CompilerDesign>.\22105126039_L06  
Enter Non-Terminal (example: A): S  
Enter 1st Production RHS (e.g., aB): aab  
Enter 2nd Production RHS (e.g., aC): ac  
Grammar After Left Factoring:  
S -> aS'  
S' -> ab | c  
G:\Saurabh\CompilerDesign>
```

The screenshot shows a terminal window with the following interface elements:

- Top bar: File, Edit, Selection, View, Go, Run, ..., back arrow, forward arrow, search bar.
- Tab bar: PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL (underlined), PORTS.
- Left sidebar icons: Document, Search, Run, Stop, Terminal, Help.
- Terminal content:

```
G:\Saurabh\CompilerDesign>g++ -o 22105126039_L08 22105126039_L08.cpp
G:\Saurabh\CompilerDesign>.\22105126039_L08
Enter number of productions: 3
Enter productions (Example: E -> E+T):
E -> E + T
E -> T
T -> id
Grammar IS an Operator Precedence Grammar.
G:\Saurabh\CompilerDesign>
```