Online 01

Question 01

Write a program using **Flex** and **Bison** to tokenize and parse mathematical expressions, identifying numbers, operators, and parentheses. The program should read an expression from the user and output the identified tokens with their types.

Sample Input and Output:

Enter expressions:

3 + 5 * (10 - 4)

Number: 3

Operator: +

Number: 5

Operator: *

Left Parenthesis: (

Number: 10

Operator: -

Number: 4

Right Parenthesis:)

Question 02

Write a program using **Flex** and **Bison** to identify and print all the **keywords** from a given text input. The program should read multiple lines until EOF and print only the recognized keywords.

Sample Input and Output:

Enter text:

if count1 > 10 return_value = 5 else return_value = 0

Keyword: if

Keyword: else