

Lexical Analyzer

Write a C++ program having a class "LexAnalyzer" with at least one method "get token()" that reads an input and outputs the following information:

1. if it is a simple integer
2. if it is a real number
3. if it has an exponent and the value of the exponent

Implement the fail() method for this class which will be called if the input is not a number. The get token() method should implement the state transition diagram shown below. The main function should read a string from command line and invoke get token().

