**Exp 8: Simulation of shift reduce parser using nltk.**

import nltk  
from nltk.parse import ShiftReduceParser  
  
grammar = nltk.CFG.fromstring("""  
 E -> E '+' E  
 E -> E '\*' E  
 E -> '(' E ')'  
 E -> 'id'  
""")  
  
sr\_parser = ShiftReduceParser(grammar)  
  
sentence = ['id', '\*', 'id', '+', 'id']  
  
for tree in sr\_parser.parse(sentence):  
 print(tree.pretty\_print())

**Output:**

A screen shot of a computer

AI-generated content may be incorrect.