



TAE1 Report (2024-25)

Compiler Design-PECCCS601T

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Semester: 6th Section: C

Title of Problem: Construction of LL(1) parser

Date of Submission: 25/01/2025

Marks: -

Criteria	Total Marks	Rubrics	Y/N	Marks Awarded
Construction of Parser	6	Explanation of Output=1		
		Parsing of Invalid String =1		
		Parsing of valid string =1		
		Construction of Parser =1		
		Understanding of Parsing Technique =1		
		Understanding of tool-1		
		Incorrect=0		
Report Submission	4	Format Adherence:- Excellent=4 Better=3 Good=2 Average=1 Not in format=0		
Total				

Sign of Student

Sign of Subject In charge

Format of TAE1 Report

- 1) **Problem Statement:** - Construct LL(1) Parser for the following grammar in JFLAP tool.

S->E#*

E->bEa\ aEb\ba

- 2) **Theory of LL(1) Parser:** -

3) **Computation of FIRST and FOLLOW** (in case of LL(1) Parser)

4) Construction of Parsing Table: -

Do Selected
Do Step
Do All
Next
Parse

S	→ E#*
E	→ bEa aEb ba

Parse table complete. Press "parse" to use it.

	FIRST	FOLLOW
E	{ b }	{ a, b, # }
S	{ b }	{ \$ }

	#	*	\	a	b	\$
E					bEa aEb ba	
S					E#*	

5) Acceptance of the sample string: -

JFLAP: <untitled2>

File Input Test Convert Help

Editor Build LL(1) Parse LL(1) Parsing

Table Text Size

	#	*	\	a	b	\$
E					bEaEblba	
S					E#	

Start Step Noninverted Tree

Input: bbaaa#
Input Remaining: aaa#
Stack: aEblbaEblba#

LHS	RHS
S	→ E#
E	→ bEaEblba

String rejected.

6) Rejection of the sample string: -

File Input Test Convert Help

Editor Build LL(1) Parse LL(1) Parsing

Table Text Size

	#	*	\	a	b	\$
E					bEaEaEbba	
S					E#*	

Start Step Noninverted Tree


Input aa#*

Input Remaining aa#*\$

Stack

LHS		RHS
S	→	E#*
E	→	bEaEaEbba

String rejected



7) Explanation of output and Conclusion: