Roll no: PD-05 Aniruddha Shende Panel: D



## T.Y.B.Tech (CSE)

## System Software and Compilers(SSC)

## Lab Assignment No – 8

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1	Subject: - SSC
	Lab Assignment No-8
	Title: - Parser for Arithmetic transmar using LEX & YACC,
\	Aim: - Write a program using LEX & YACC to create Parser for Arithmetic Grammar - Design calculator.
- X	Objective:
-	(1) To understand Yacc Tool.  (2) To study how to use Yacc tool for implementing Parson.  (3) To understand the compilation & execution
· · · ·	of *.y file.
Street	Theory: Write in bruet for following:
Ans i)	Grammar - Context free grammar is a found
	grammar which is used to generate.  all possible strings in a given formal language.
2)	Co routine work of Scanner & Parser

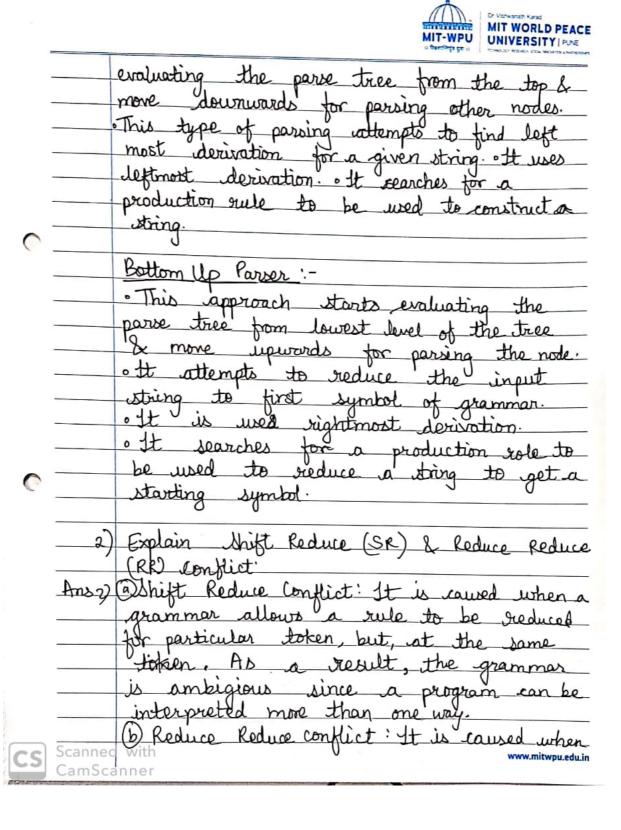
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Ans 2)	Most programs with flex scanners use the
	scanner to return a stream of tokens
	that are handled by a parver. Each
	time the program needs a token, it calls
	yylex(), which reads a little input and
	returns the token. When it needs another token,
	it calls yylex() again. The scanner acts as a co-scoutine, i.e. each time it returns, it seem-
	embers where it was, & on the next call
	it nicht us where it lett it
	it picks up where it left off.
۵)	I to a lamoutic actions in trutile.
12	Syntax & Semantic actions in Ky-file.
	Senantic Actions describe how to compute
	value of attributes in tree.
	Syntax actions uses:
	o Regular Expression is define toxens
	Regular Expression to define tokens.
	and the state of t
	Input: - Source specification (* Y L * l) = file for arithmetic expression statements.
	the fir watered expression statements.
*	Output: - Result of Arithmetic Expression.
15.2	
	FAQ's:-
-	
	Differentiate between top down and bottom-up
^	parsers.
ES C	amScanner Parser: - This approach starts www.mitwpu.edu.in



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	a grammar allows two or more different sulls to be reduced at the same time for the same token, when this happens, the grammar begins ambiguous since a program can be interpreted more than one way. This error can be caused when the same rule is reached by more than one path.
Ans 3	How YACC resolves ambiguious ambiguities within given grammar?  Shift Reduce Conflict in the parsing table is resolved by giving priority to shift move over reduce move If string is accepted for shiftmove, then reduce move is removed, otherwise shift move is removed.
	Reduce Reduce Conflict its parsing table is resolved by giving priority to first reduce more If the string is accepted for first reduce more, then remove second, reduce more, otherwise first reduce more is removed.
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