

Faculty of	Engineer	ing & Technology
Subject N	ame:	3
Subject C	ode:	
B.Tech.	Year	Semester

## Annexure No:

mco & FITB:

- 1) YACC = Yet Another Compiler Compiler.
- 2) Lexical & Syntax Analyzer = Front end of combile
- (3) arammar has > 1 Passe tree

= (Ambigious)

(4) P,Q. &R are total no. of states in LR(0), SUR(1)

then PCQKR

Coperator grammar has no null prodxn

C. Top down passes is not applicable for left securive

C Lexical Analysis can eliminate white space.

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Compiler	Interpreter
(1) Scano whole code.	(1) Toanslates one statement at a time
2) Convert Source - Object Code	2 (dont) 2 (dont) 2 (dont) 2 (dont) 3 (dont) 4 (dont) 4 (dont) 4 (dont) 5 (dont) 6 (dont) 6 (dont) 7 (dont) 7 (dont) 8 (dont) 9 (dont) 1 (
(3) clon't reprise source for execution	in 3) sequises source for execution
(4) machine code stored in	(4) machine code à not stored anywhere
(5) CPU utilization = (high	S ceu utilization = (es)
(G) C, C++, C#	6) Pythan, Ruby, Pen
(7) mose efficient.	Pless efficient
(8) Fast execution	8 Slow execution
Cooss compiler: Rund on on	, ,
es. Compiler on windows k	osoduces. exe cade for linux.

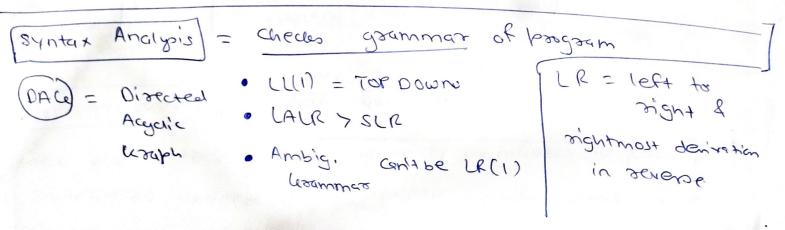
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## Annexure No:

,
Left factoring: used in grammar transformation
why?
to (eliminate)
Common bretixes in alternative brodx of
a non termina!
For Handler! resolving & detecting errors.
(detected)
Italies action to eliminate is.
to eliminate is.
obigious. can generate more than one passe tree
grammer for i/h string.
can create (errors): left factoring & otresator



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breedence is used

[YYTEX()] is automatically generated by flex. A synthesized attribute is a attribute whose value at a parse tree depends on the value of its wildren in parse tree. Shift reduce conflict = state don't know if it will make a shift opn or red for terminal (I/b) to Texical = source code being compiled SDT =) SOMBOTHER SYNTAX DISECTED TEANSIATION. [Augmented Cerammar] = Additional symbol added to grammar to impowe passing by passer: S- Attributed hormoner = CFCo that associates attribute with goammar symbols 4 oule (Bottom up) (Synthesized attributes) SYNTAX TREE = Tope like (DS) -> sepseents syntactic stockers of a string node =) Pasent, children (TOUEN) = (excep of symbols PATTERN) = sequence of lexeme | set of onles (instruction (exemp) = sequence of characters in the source program.



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Finite Automata) is used for recognition of token.

Canopial LR

Data items grouped together

Code, (Procedures), (Variable) = managed by Run Time Env.

Plexical Analyzer

stedo source poogoam of borguitinto

(LRCI) l'is book aneed UR Passer.

gets rawe from siblings or basents

get > rabe & from children to pasent

Climination

elimination take blace in intermediate code generation Reasive Decent Passer

= Top- Down Passer

Compiler Can Check SYNTAX

Part of string

matches 3 Rts of any boodxn

handle

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(Semantic Analyzer) are toleron together into sementic structure () grammer checking ef ("i = 1/d, di = 1/x, i, dig); = (21) to beans ("exp. is very long elimination of left secusion is done via Top Down PARDER Lexical Analyzer (suips) white spaces DAG is used to represent common subexpressions aptimizes code by seducing sedundancy. (Esser seconery) by (panic mode), (phouse level) (esser