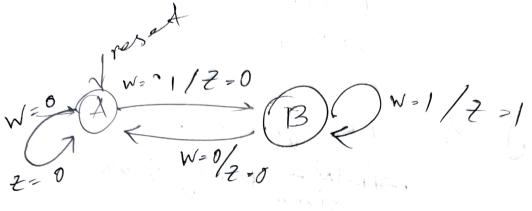
ed valus in symbol table should be written directly unsared Finite state machine 1) Moore (7-> depends on current state) enealy (7 > both current and intermed more if W= 1 1 2 2 0 0 1 revirent state. J

overlapp w=0 w=1 militype ah state anign table meleng imediate Predu -we) 221



State	Jable		132 / Dis	** *** *******************************			
state our stake	next stat		in the				
4	W = 0	W-1	W= 0	W =			
A (0)	A	B	0				
B(1)	A	B	0	1			

CSF	4	1	0
9/1	/	2	4

parsing of SLR gramer. - simulate parsing table string - see it parsable

> -Syntax Directed Translation

E > £1++

example: ex: (a+c)+b+c

11 -> concatination

of atb posttix

semantie rule E.code=, E1.code // T. code 11'+1

(SA (chech tohurs) & A - sementice and sis (it logic of code over 11. Assembly 6.3 adress codes: Jon one line of Compiler commented this to amenby layun sinilar too , 1 = a+b, +2 = 0 + 2 = +1-+2

A = A + B C = A D A B 1 C 1te=: con ra one line

2 operations and one operators - 3 add cotte

a strette so that its possible to bring it in 3 address code format. i lotor without

In syntax analyser.

- checks if tohen mentales in grammer - using symutic rule (£.codi=£1.c.) - generales 3 address code

fut can be com to anenbly S.D. Definition production run with semantic run S.D. Transation: Implantation of SD.D. gementic action: convert sementic rure to senantic

In simontice rule Each Hermind and non-termind will have an attibute € . code Contract to (9 produm &) 1.3->E EITIF 3. TOTAF 4. # -> id create semantic actions

(both terms and E. code = E1. code + T. code - not necessary OR = DE, code 11 +. code 11 J. code (torex for p)rs)
is '+' Sen vun! - termines and nor tenden have attributes. E, var tot komm array of vms.

for a gramer a semantie valle will zoemde zadd Rode be given -2 A 3+5+6

Lean directly calculate es

your wring 3 add eves

E > E val + T. val | E W 10 1 5 1 6 + > TR val & F. val | T. val | X. cval K > www - using sements a course con various operation have

Attributes 2 types

- @ syntherized.
- 3 inherited:

O synthesis

3 #5+4N

symatic my L.val = f.val L-> En E>E, +T [. val = E1. val+T. ral E vol = T. val F-> T T. val = +. val xx-val ナッナレ* T. val= F. val TAF F. rM = E. val T+ F c . val = digit . lexim $F \rightarrow (F)$ F -> digit 34 6+4h

when construct a parse free vising this when @ +->£1+T £ 1 + > + For each moder prod herd Firal Find out: how it is calculated f.rol = Envol + T. vol when value of a rode is calculated by its own by coloreted by its own att val of its children att val fand of its children synthesized Inherited: E. val: E. val = S. valt

E. val = E. val

B. val = E. val

E. val = E. val I = A +B+E

from sibling itself

- parent inheritedo can B = A + S DFS it all are synthecisted attributes for all rods? for colonlations can't DFs for producting inhorited, afterning, manually do Evalute on SDIT it all ave synthesize wing DFS O create parse free @ wruit addibuts. 3 Trafarse in DOS

L. val = 19 ¥-val = 19 - 1 Var 3x5=15 aigit.lex=5 d. 1 / 1 / 1 x = 3

(345+45)

Dend of inp and different entity

```
3 A 5+4n
```

O parch digit. lexim. d. 11x=3

@ thm F-ral = 119.14x

5+ = 3

3 T. val = 7. val = 3

(G) #

(3) digit kx = 5

(B) F. val = digit. kx = 5

1. vol = T, vol x x · vol

- 3×5

8 I-VN= 15 0 +

(10) digit. 1-1x = 4 (1) f. val = 11

(12) T. VN = 4 (13) E. VN = E1. VN + T. VN = 15+4

= 10