

The structure of a complete Wednesday CT-01 - phoses of compilation () 9:20 am 51ide-018,02 - Analysis - synthesis Phases (d.o.) - Phases of a compiler - Lexical analysis / sourning - Porsing /of ntax analysis - Semantic Ananysis Interemediate Code Greneration 8/9200/1024 - code optimization - code generation 26969 + computing impact on the science Turding Machin obien of I.A. robon Asilos medal? - Physical aciences - Mith statistical assembly respond & residue of Turing Test or The Birth of AI of Automobed moblem solving origins of Az to Azis conquists Techondogy made conjute storage communication free of Fresh 17- generated teathers shows taken trades t writer one ortually good at

Compiler Design & Automata Theory Date- 24.08.23 Certification of the continuity of the continuit Evolution - Machine language Assembly language. Macro instructions in assembly language Passification of by generation. -Impact of compilers Compilere Design & Automata Theory Locical Analyzers Lexical Analyzetr -scanning percser - Tokens, patterns and Losems Aftribudes fore towers (self study) Ex-3:2

- common Token Types
- Atticibules for tokens
- Example 3.2

Exercite Recovery / Handling

- Types of extrores
- Morce Leseical extracte execumples
- c Ereporte Recovery/trandling
- Advantages of eresore Recovery in Lexical Analysis Phase - Disadvantages of export Recovery in tercical Analysis Phase

Input Buffereing

- what is input buffering? Low Level Language to High Lovel Language
 Alvantage
- Sycalous of payme
- Alvantage.
- Disad varriage
 - How if works?
- Buffer Pairs
- Sentirels
- can we rean out of Buffer space?

Notation.

Alpha bet 5 Million alprop in plants

- Term Jon parets of strings

- concortenation

Exponentiation

Language operators.

· Union (LUH)

· concatenation (LM)

· closure

MKleene closure -> (L+)

≥ positive closure > (L+)

ta foremaj definition

Fig - 3.6 Definition of operators

. Regular expressions

Ex-3.4 5

Afgebraic laws for regular expransion -> Fig - 3-7

3.3.4 Regulare Definitions Extensions of Tugulare expressions

Exercise 3.3.2

Ex-3.3.9

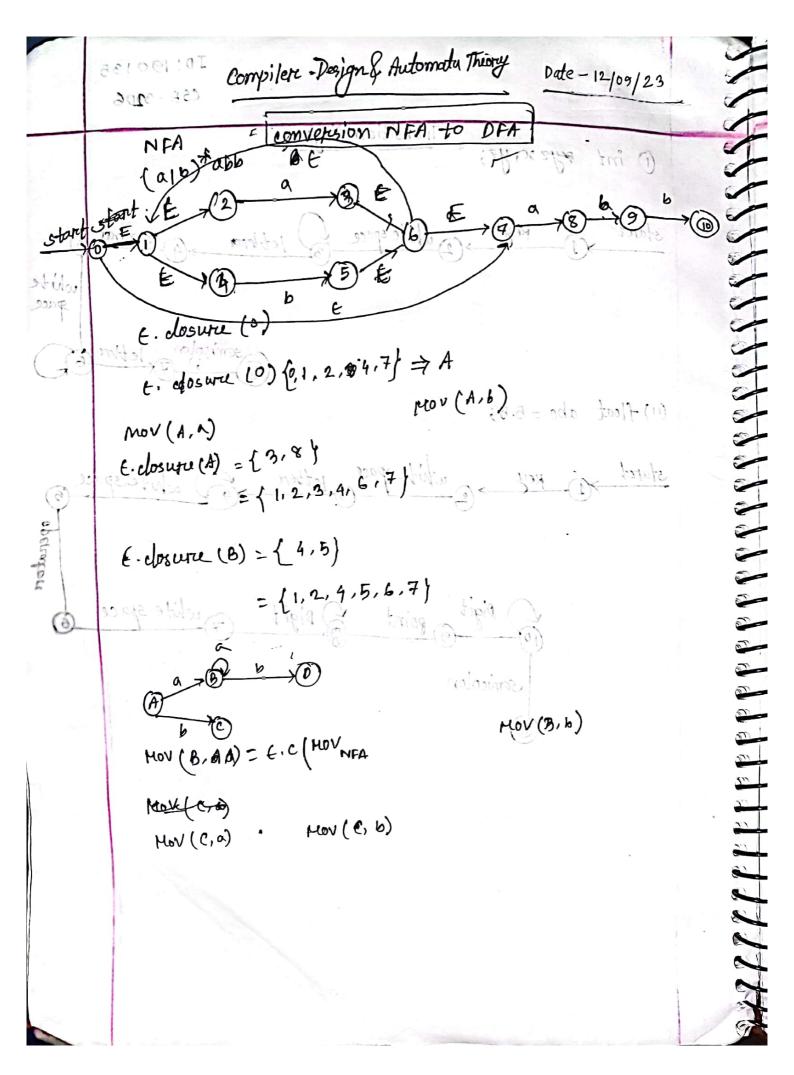
pate-04.09.23 CSE - 3105 Compiler Design & Automata Theory - transition Diagram -> Example

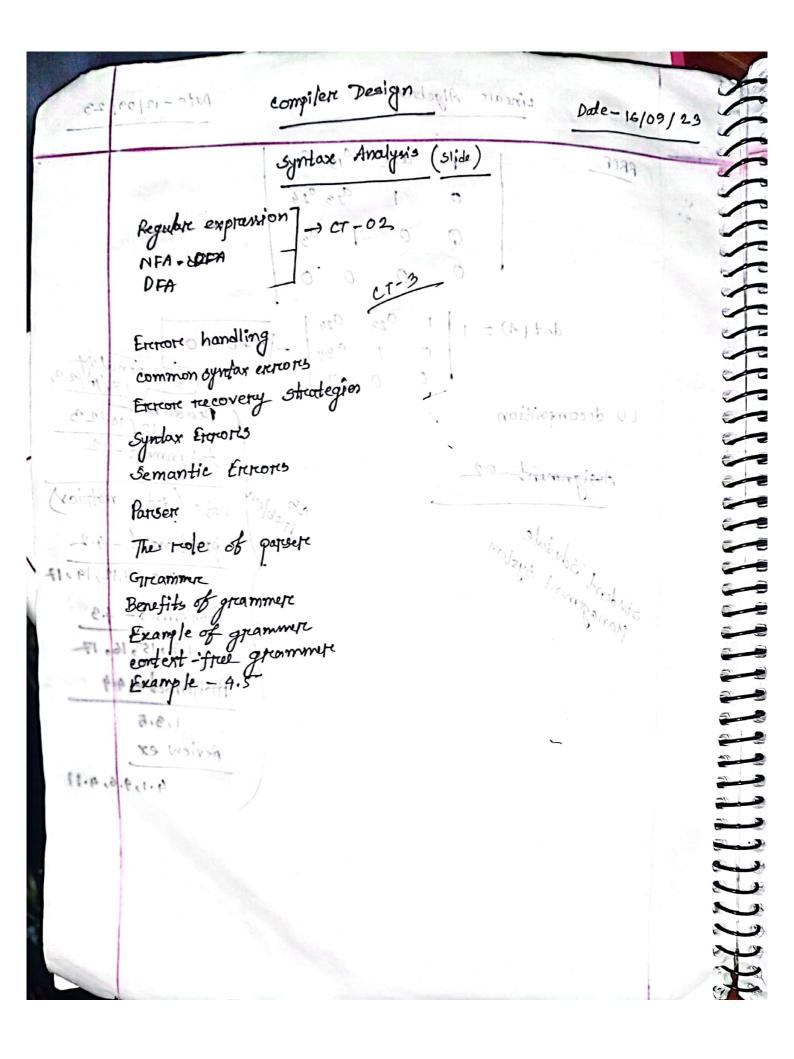
-> Keyworlds/ID rug tucognition

-> Keyworlds/ID rug tucognition space tucognition -> Fig - 3.17.

-> Unsigned number & white pecognition space tucognition -> Fig - 3.17. he not and Interfacing Date - 05.09.23

ID: 190135 Compiler Folger & Automala Thirty CSE - 3206 170 of Transition Diagrams 1) int zyz x, yz; (11) float abc = 5.5;





-> Derivations

→ Dercivation types

> Derchation in detail

-> Example

-> Excercise -4.2.1:

5-35+1550+10

5-> 55 *

1. => as+s *

>00+5×

, > aata*

-> Ambiguity

-> Example of ambiguity

- Ambiguity again - dangling Else

-> thow to fix dangling else problem

and the string across

Buzzer ~ transmiton, copper wire.

CS CamScanner

5 cs1 - infroduction 3 us 2 controller Terron nation compiler Design

-> Left Recutision Example

-> Left Pactoring

-> Top Down Paresing

- Top down Parising Example

$$E \rightarrow TE'$$

$$E' \rightarrow TE' \mid E'$$

$$T \rightarrow FT'$$

$$T' \rightarrow \cdot FT' \mid E$$

F' → (E) 1id

> First & Flow Follow

- How to compute first (x)

> Example of firest set generation

> How to compute Follow (20)

reft (2) -> H.W.

Example (4.32) (Slide - syntax Analysis

E-TE

E' -> + TE' | E

T -> FT 66

T' -> * FT' | +

F → & (E) | id

| Example (4.30) of follow set generation

In previous class we leavent

- Varcious kind of parising

- problem according to grammer

- Recursive grammer

- first follow to garise table

- Predictive parsers

- constructing a predictive parising table Hethod: A - a rule

- Emample 4.32

- Fig 4.21

Compiler Design Slide - Bottom up parising -> Boltom up paresing -> Top down parising -> 4.5.2 Handle Pruning -> 4.5.3 shift reduce paresirg -) conflict in shift reduce parcing - 4.6 Introduction to LR parising: simple -> 46.1 why LR parises? -> 4.6.2 Items and the LR(0) Automation -> Example 440 addatas parties &-Howards I chow Approach abosen in Alapas + (it in propos or boson to

Algorithm: C 4.5; Introduction
Algorithm: C 4.5; Gain Ratio

Algorithm: C 4.5; Gain Ratio compiler (alb) abb

BNFA -> DFA closuru + E(O) Transition Diagram Lexem DFA 6 Syntax Avolyzerc - Notational convention -) Formal Greammere - Papese Traes

Compilere

give me land on widgest of

- Parsing, FIRST (), FOLLOW()