1st clans CSE 420 2706 2014 compiler construction Faryana yesmin Contex Free Girammor: contex free grammor can be use to help quide the translation of program. systex direction translation: A grammeroriented compiling techique known as system linected translation. M. Coop gamb A do to Node a production A-> supe, than

a parise thee may have an intenior mode labled. A with three child child run label Labled 2,4,2, from let to night.

Properties of Panse Tree: OThe Proof is Labled by the start symbol.

- DEach leaf is labled by a token ore by E. prints - prints
- 3 Each Interior node is labed by a non-terminal.
- g If A in the mon terminal labeling some intenior node and  $x_1, x_2, \dots$  an are the labeling labels of the children of that node from left to night them,  $A \rightarrow x_1, x_2 x_n$  in a production.

Two parese trees for 9-5+2: Labled String string 1 labled for a to String - string Interior node is labled b String the police formulas appropriate string string string The fact for the I more eight text terringers Two Partse frees for

Compilar: 田 compiler 7 farget program Source PROGIUM Enror messege. 260 000 257 Draw a language - Processing System? skeletal source Program Preprocessor source program Compilar

Compilet: assembly program assembler Relocatable machine co de Loader link Library re catable anguage - Moccessing system: object film. margar Absolute machine code Fig: A language-processing system.

Draw the phases of a compiler; 由 Source Program lexical analysex Systex Amalyzer Sernantic Analyzon Encon han dur table menage ment Intermediate co le code Optimizer Fig. Fhase Ede Grenerator program