Thurs Long Compiler 10/10/24 Compiler: Compiler is a system software last takes some source code as input, analyze it and translated convert it into some target code (machine code) S-C Compiler T.C. HLL code Compiler Machine Decomposition of compiler, Analysis - Synthesis Model (liagram B incomplete on nortes) Cogical Phases Front-end Ey back-end Pass S.C Analysis 1-R Synthesis Analysis Eq Untermediate Synthetic code - Lexical Anelysis, only done of reserved words probletion marks are all checked. Words are she sked against lexican (vocabulary) of language. Syntax Analysis: Cheeky Me syntax. Semantic mulysis! Checking that the systemic mulysis! Checking that the systemic son cole you have burilten does it melae son a not. Hamid is steading the book (c) sook it waters the Hamid (x)

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3/3 (V) but 5/0 (X) X=4+2 B semantically correct but 214 - X is semantically magnet as celculation

3 supposed to be some on RHS, not on CHS.
In analysis symmetry these, The compiler is decomposed into two phouses. emalysis phase & synthesis phouse. the s. c as input and perform lexical analysis, syntax analysis and semantic analysis and convert the S.C into I. C (intermediate 2) Synthesis Phase: The synthesis phase takes the T.C. as input and translate it Indo machine code/ taget code (T.c).