-> Compiler-construction: a compiler is a computer program translates a program written in one language (same code) into an equivalent program (target lang in another lang - input in the gorm of high level lang, like, coct, jave input ___ (compiler)-Parget program Gean be IR means Intermediate coole Represaling or Anssemble language. -> compiler constructions (the process of constructing Compiler is called compiler constructions -> why we construct compilers without compilers, our machines (computers) are not able to understand the source code, written in high level long. 7 Types of compilexe y single pass 12, Multi Passe it compile the whole It compiles the process/some process in only one-pass. code of a program Multiple Homes ex java Nousce code Compiles -> Parget ade Means it does not general Verse Front IR / midlicent IR

- cousins of compilers. The phases of compiler construction Ps known as phases cousins of compilers and that process is also know as language processing rsystem. -> 1st cousine Pre processors The pre-processor accepts source code as input and is responsible gorms. 4-78t semoving commentes 2 Process all preprocessor directives denoted by #. means what ever # symbols will be included in our code, it will replace it will original coding. -> diagram Simple progs compiler. direchie Action then that code comes as an input the compiler.

and convert it into assemble cooker
and convert it into the relocated machine code.
(9) Unking and loadings. if perform the your yunchions.
O Allocations: The relocatable machine code repaire will acquired and in memory that spaced will be a ssigned
DRelocation: All fasks will be loard in moin memory. From secondary to main memory. whose fashs partially to high.
of program together gor execution into a single executable tile.
9 Coaders A Coader Cends this executable gile into the memory and stored its execution.
바람이 얼마나 되는 것이 살아보는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다.

=> Phase-s of complexs there are asix phases involve to constant the compiler. source code. After removing directives the + coole viones in the first phase of compiler as an input to the ph first phase of compiler. Y Cexical Hnalysis & collects all the tokens out pot as retream of tokens. an generale the and these refream of tokens goes to secondphase. 2, syntax Analysis Phase (exox reporting): passe tree

generate as a output and it will go to semitic Andaysa Phose: 13 Semintic Analysis phase (essor reporting) then it will convert into the syntax tree. Uphase. y syntax tree then 5 BR (Intermediate code generation. 6 PR (Intermediate and generation) code optimizer code optimized 9 Parget code (generation.

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