

This phase also keeps track of identifiers, their types and expressions Code Optimization stage there unnecessary use lines are removed and grangement of the statements in the lowest equence order is done. This is to speed up the program execution without wasting seconds. Code Generation crage the , the code generator maps the optimized code to the Torget machine language. The intermediate code is translated into q requence of re-locatable machine use the Symbol Table Is a data structure that maintains and stores identifies names along with their types. Making it pages for compiler to quickly search identifies record and retrieve it-2. What is a translator? Give 3 examples A translator is a computer program that perform the translation of a uniter program in a given language into an equivalent in functional function program in a different language without losing logical and functional structure of program. Examples are Decompiles - Boomerang Decompilers Interpretex -Source-to-source compiler - CHILL-to-CH translators 3. What are 1) Linker \* linker is a program (computer) that compines object modules to firm an executable program. ii) Loader it is a part of the operating system and is responsible for loading

programs and libraries iii) Preprocassor It is a program that processes its input data to produce output used as input for another program iv) Xssembly language It is a low-level programing language for a computer in which there is a very strong wrespondenta between the language and the architecture's machine code instructions. V) Machine language It is the lowest-terel programming language that is understood by computers. 4. Write short notes on 2) Tokens A token is a sequence of characters that can be freated as a unit in The grammar of programming languages. Examples are v Type token (id, num, reaf, ...) V Punctuation tokens (H, void, return, ...) ~ Alphabetic tokens (Leywords) B) Lexitons Refers to a group of words used to create a programming language. Examples For, For each, Do If, while 8) Lexomes It is a sequence of characters in the course program that is matched by the pattern for a taken it also is a strong of characters that is the lowest-tevel syntactic unit in the programing language Ex are