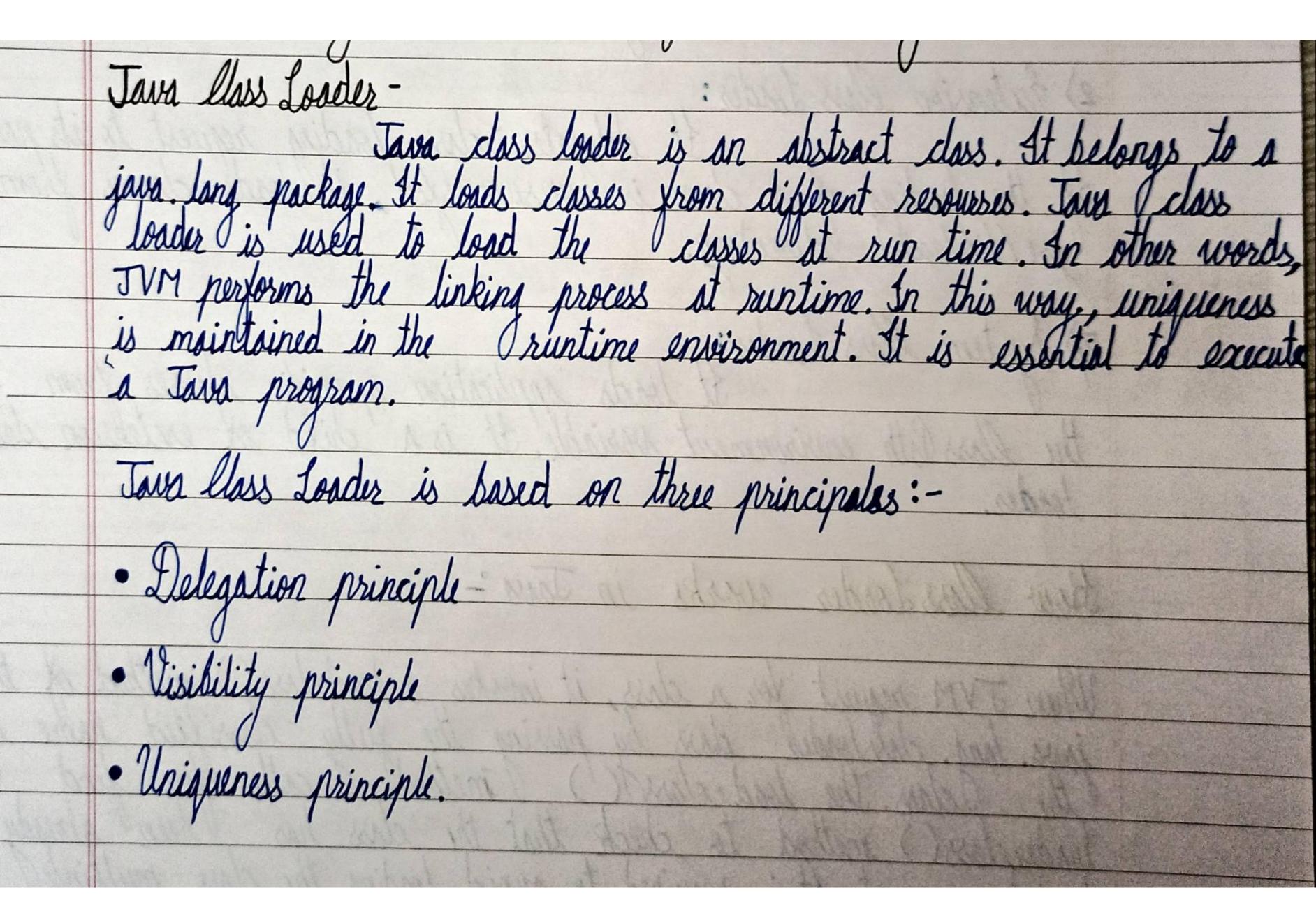
CIASSMATE * System Programming and Aperating System (5005) - Assignment Number - 3 Name: - Krustush Shrikant Kabra. Class: - Third Year Engineering. Div: - A Roll Number: - 38 Department:- lamputer Department Pollege:- AISSMS's IOIT lompare different types of loader scheme. Explain static and dynamic linking. Explain lexical analysis, syntax analysis and semantic analysis with an example. -> There are 6 types of loader schemes: is lompile and yo loader
Assembles lies in the memory and loader itself does the

process of assembling and loading machine instruction and data at specified

memory locations Source program is converted into obj: program by some translator. Loader accepts these obj modules and puts machine instruction and data in an executable form at thice assigned memory. sij) Absolute loader-It take OIP of assembles and loads it into memory without relocation. The OIP of the assembles can be stored on any machine readable forms of storage.

Page: (v) Subroutine linking loaderThe way in which a machine makes it
possible to call and return from subroutine is referred to as subroutine
linkage method. V) Relocating Loader-It loads a program in specific area of memory, relocates it so that it can execute correctly. Static LinkingThe linker links all modules of a program before its execution starts it create a binary program that does not include any external references which is not resolved. Dynamic linking
Dynamic linking is performed at the time of execution of binary library. Only one copy of shared library is kept in memory.

The load time might be reduced if the shared library code is already pressure in memory.



CIASSMATE In short, dass loader follows the following rule: · It checks if the class is strudy loaded. · If the class is not losded, ask parent class londer to load the class. · If parent class loader cannot load class, attempt to load it in this class loader. When classes are loaded -There are only two cases: 1) When the new byte code is excuted. 2) When the byte code makes a static reference to a class. For example -> System. out