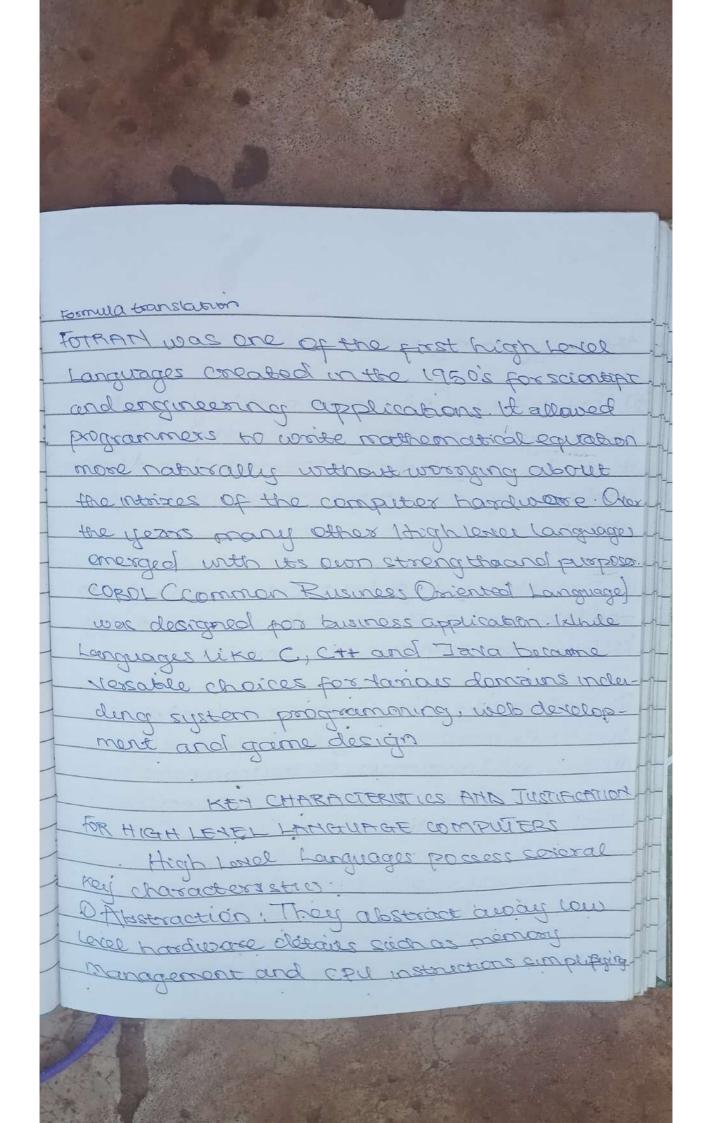
Foundations Of Sequential Programming learning Objectores appellodox stand the concept of HX computer @ Exprase the Justifications for using Level Languages B Evaluate arguments for and against @ Gain insights into High terrel Language Computer Systems and Arethitecture 5 Istablish the relationship between High Tollet Languages and computer tochtecomo @ Elamine basic machine Archibecture Dearn about the Specifications and translapour of brodeau randradre (6/1) proces Discuss Structured Languages and paranotes passing mochanisms

## Introduction High Lord Language Computers, also known played a total robe in the explusion of modern computing. These targuages are a bridge between the complex baredware of a computer and the human readable and that programmen use to install the come machine. It high here! Language Computer is a type of computer systems that allows programmes to write Leadean in prily resor Leadeanning Cardindes High Lord peodecourned Longuages are designed to be more human readable and abstract making it easier for programmers to express their ideas in a way that is close to ratioal Language. These computers Use compiler of interprotors to translate high Laxe code into marchine code that the compiler can execute. · HISTORY The doologment of high total Languages



the budgamenad buccoss @ tostability: Code worther in high level Languages is generally more portable because it can be compiled or intexpreted on different [ lexele platforms without significant modifications 1 Koodabilier: High Lovel Code is more human readable and easier to understand postering d collaporapous aword beoderwest @ Leagn Con gowers . Lead sauces con gowers 2 Sopronoce more quickly and opposently is 1 high Lowel Languages, as thousan grows on U correct beopour sources than goaloud low-6 loyel technicalities To a Arguments for and against High Level Co Language Computers High hered treateraining Languageshare 8) produce an injodical base of morgon software

dovolopment, but thou are not without conticision. Briefly we will explose the arguments both for and warst 14: de paper toudrade combiners Arguments For CAduntages) 1) Accombibity: One of the pormany arguments in twens of High Felet Language computers is their accessibility. These languages are dosigned to be more human readable and closes to rectural language making programming more appropriately for a more gresse and inchesive bedeauund community (2) Productivity: High Level Languages are known too their orpility to poosts, beodraumors beognor Way. They offer built in functions and libraries that simplifies complex tasks allowing developers to pocus on solving highex lovel problems rather than gotting bugged down in low level details The womand wonddement or paramar ectoriticator instruction 3) Portability: Code wonther on High Lord Languages

Nebelus & tend to be more postable. Pragrammen can write code once and our is on multiple platform with minimal modification, thanks to compilers and interpreters that translate High Ratel code into machine specific instanceons. This portability roduces doublepment time and export A) Mantenance: High love codes one renexally eagl to maintain. It's neadability and abstraction makes it simplex for multiple proximeness to collaborate on projects, debug codes and make updates. This reduces the risk of essors and facilitates long term software sustainability E) Innovation: Him Level Languages encourages word ation by enabling programmers to now ido as and derelop cor ware more mapaly They provide the providing to experiment with Jettemen approaches betoing wearing to sortunase dotelament

Examples of LLL: According, C Argunonts against (challenges) Personance Overhead: Critics argue that high Level anguages introduced popularico oroxhand compmed to how Lord Languages who accombing language or C. The abstraction layers and additional operations can result in slower execution times and sake momory comsumption, which can be orbical in some applications like roal time systems or high performance computing. 2) Lack of Control: High Lovel Languages abstrace away revary now lovel details of hardware which some de le loppers lieu as a desadrantage. They argue that it's abstraction limits their control prox the system and can make it challenand to obsume work too stoutic hardward archite chiol 3) Leavenny Curro: While High Lovellanguages and to be more accessible tolics argue that those is still a locarmed area ostocially box beginners. Learning the syntax and semantics Of a specific Itigh Lovel Language can be

