Summary of Chapter 1: Introduction to Computers, Programs, and Python 1.Writing Code and Mathematical Operations Python performs operations like addition (+), subtraction (-), multiplication (*), and division (/).Supports two modes of execution: Interactive Mode: Executes commands instantly.It is used in various applications and focuses on developer productivity.Components of a Computer CPU (Central Processing Unit): Executes operations.Programming Errors in Python Syntax Errors: Mistakes in code writing, like missing quotes.Python Programming Overview Python is an open-source and widely used programming language.Python provides a comprehensive library for building programs.Input Devices: Such as keyboards and mice.Output Devices: Such as screens and printers.Programming Languages Machine Language: Uses binary codes (0 and 1).Translation into machine language is done using: Interpreter: Translates and executes line by line.Script Mode: Writes and executes code in .py files.Runtime Errors: Occur during execution, like division by zero.Logic Errors: The program doesn't produce the desired result.It is easy to learn and suitable for beginners and professionals.Compiler: Translates the entire program before execution.Python Basics Python is easy to learn with clear syntax.Comments are written using # and ignored during execution.Communication Devices: Such as network cards.High-Level Languages: Like Python, easier to read and write.Python ??Main Memory: Temporarily stores data during work.Storage Devices: Such as hard drives.Python?Python ????.py.Python ????Code is saved in .py files for later use..py ??????????????????????????????????????????.????????????????????????????????????????? ???.?????????????????????????????????????.?????????????????????????????.--- 2.??????????????????: ????????????????????.??????????????????: ????????????????????????????.????????????: ????????????????.????????????: ??????????????????????????.????????????: ????????????????????.????????????: ?????????????.--- 3.????????: ??????????????????(0 ?1).??????????????????: ????????????????????.???????: ????????????????????.??????: ????????????????????????????????.--- 4.????????????????????.?????????????????: ????????????????????.??????????: ??????????????????????????????????????????????????# ????????????????????.--- 5.??????????: ????????????????????????????????????????.??????????????????: ????????????????????????????????????.??????????????????: -)??????(+)????????????????????.????????????????????????????????????????.--- 6 ?????????????????????????????????????? ---.????????????????????????????.(/)???????(*)??????(