

Preface



Interaction of human beings



Interaction of a human being with a computer

Human beings are inventive and innovative! Let me try to explain the analogy of interaction between human beings versus interaction of a human being with a computer.

Basic interaction between human beings is a face-to-face communication. Similarly, basic interaction of a human being with a computer is through a machine language. When computers were invented, people used to write programs in machine language which were directly executed by a computer.

Alexander Graham Bell invented telephone in March 1876 to establish the interaction between people who are located far away. People located at different places started interacting by transferring messages through wireless or wired networks. Similarly, assembly language was the step to interact with a computer much easier than machine language. Programs developed in assembly language are not directly understood by a computer.

Problem with telephone was it has to be used from where it is fixed and one cannot carry it. This problem is solved by mobile phones which one can carry anywhere. Mobile phone is the next generation in communication. Similarly, problem with assembly language is that one cannot use the programs developed on one machine on the other machine as assembly languages are specific to machines. This problem is solved by C language which is

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portable i.e. the program once written can be compiled and executed on different machines also.

If you think a mobile phone with a camera, bluetooth, sound recorder and a few more features is an advanced version of basic mobile phone then C++ is the enhanced version of C. It mainly adds object-oriented features like encapsulation, inheritance and polymorphism in original C language. C++ is one of the popular language and has been used to develop system software, application software, device drivers, embedded systems and games. As per the reports of Tibode.com and dice.com websites, C++ is the second popular programming language that is widely used. For readers, this book is written in a simple and lucid language with many practical examples. Beginner can become expert after reading this book.

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The explanation of complicated concepts is provided in a lucid language which becomes the major strength of the book. I hope that readers will benefit from this book in maximum possible way. Readers can email me on mothemadhusudan@gmail.com or contact me on **097 3030 5960** (Maharashtra) for any queries or difficulties during 10 p.m. to 11 p.m. (IST) where I may be available depending upon my schedule.

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