
UNIT 13 COMPUTER MAINTENANCE AND TROUBLESHOOTING

Structure

- 13.1 Introduction
- 13.2 Computer Maintenance
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13.1 INTRODUCTION

Computer maintenance refers to the *physical processes of upkeep of the peripherals*. Maintenance activities like regular brushing, dusting, vacuum cleaning etc, are the important and mostly ignored preventive measures.

Regular maintenance generally takes care of most of the problems especially those of data loss or corruption. So it should be given due importance.

Troubleshooting is isolating the source of a problem and fixing it. In the case of computer systems, the term troubleshoot is usually used when the problem is suspected to be hardware related. If the problem is known to be in software, the term *debug* is more commonly used. Although troubleshooting covers both hardware and software.

Hardware troubleshooting includes removing the problems when the hardware devices as mouse, monitor, printer, modem etc. malfunction.

Software troubleshooting includes removing problems encountered while working with Operating System. It also includes the most threatened problem these days, viruses.

Objectives

After going through this unit, you will be able to:

- 1 discuss the various system tools for computer maintenance, and
- 1 enlist troubleshooting tips for software and hardware.

13.2 COMPUTER MAINTENANCE

Computer, like any other commodity, demands proper maintenance. Everyone must take some desired steps, every couple of weeks, so that their computer remains in good condition.

These are some of the basic things if done properly can increase the life of your computer and can lead to a smooth experience with your computer system.

The following tips could be followed regularly:

- 1 The monitor screen should be cleaned with a dry muslin cloth.
- 1 Keyboard could be cleaned with a brush or a vacuum cleaner.
- 1 Weights like books, files and papers should not be kept on the computer.
- 1 The screen could also be cleaned with a soap water spray.

→ NOTE

Debugging is finding and removing errors (bugs) from a program.

Understanding Computer Troubleshooting And Maintenance

Dan Gookin



Understanding Computer Troubleshooting And Maintenance:

Troubleshooting & Maintaining Your PC All-in-One For Dummies Dan Gookin, 2017-05-11 Stop being a prisoner to your PC. Need a PC problem fixed in a pinch? Presto! Troubleshooting Maintaining Your PC All in One For Dummies offers 5 books in 1 and takes the pain out of wading through those incomprehensible manuals or waiting for a high priced geek to show up days or weeks after you need them. Arming you with everything you need to get that pesky PC working for you ASAP, this handy guide walks you through all the steps to restoring whatever's making your PC go rogue so you can get back to making it work for you. There's nothing worse than firing up your PC only to discover it's inexplicably unresponsive. With this guide, you'll gain all the skills and insight you need to bring it back to life and to prevent it from ever leaving you in the lurch again. Find out what's behind common PC problems. Solve email and web woes, both big and small. Perform regular maintenance and get serious about backups. Troubleshoot to find solutions to your issues and learn proper maintenance to head off future headaches. Your PC problems aren't as big as you think. Take matters into your own hands with the helpful instruction provided inside this book. [Troubleshooting & Maintaining PCs All-in-One For Dummies](#) Dan Gookin, 2021-02-02 Show your PC who's boss. Nothing's more annoying than a tech malfunction, especially when it's your PC, with the exception of perhaps wading through reams of random unreliable theories online, looking for a solution, or paying an expensive tech geek to show up to perform a five minute fix. The latest edition of Troubleshooting Maintaining Your PC All in One For Dummies puts all this frustration behind you and gets you straight to work solving the problem yourself. In his straightforward, friendly style, Dan Gookin, bestselling tech author and all round Mr. Fixit, packs everything you need to know into 5 books in 1, giving you the knowledge and process to hit on the right solution fast. From identifying common problems to methodically narrowing down to the correct fix, you'll save hours of frustrating research and experience the sweet, righteous satisfaction of having achieved it all yourself. Pick up quick fixes. Understand and reconnect networks. Restore memory. Boost your PC's performance. Every problem has a solution, and PCs are no different. Get this book, and you'll never catch yourself shouting at your monitor or frustrated with the motherboard again. Well, maybe not quite so often. *Networking Explained: A Comprehensive Guide to Understanding Computer Networks* Pasquale De Marco, 2025-03-17 Dive into the world of computer networks with this comprehensive guide designed for those seeking a deeper understanding of the technologies that underpin our digital infrastructure. This book provides a thorough exploration of the fundamental concepts, protocols, and applications of networking, empowering readers to navigate the complexities of modern networks. From the basics of network architecture to the latest advancements in cloud computing and network virtualization, this book covers a wide range of topics that are essential for anyone looking to build a solid foundation in networking. You'll gain insights into the different layers of the OSI and TCP/IP models, the protocols that govern communication between devices, and the various types of network media and devices used to connect them. Explore the concepts of network addressing and subnetting, which are

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