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appears. When the computer executes println, the com- puter puts some text in Eclipse's Console view and then immediately moves to the beginning of the next line in preparation for whatever else will appear in the Console view. Instead, you comb the evidence slowly and carefully for clues. (For a program running in Eclipse, the word out represents the Console view. A compile-time error (also known as a compiler error) is an error that prevents the computer from translating your code. 372 Examining the meaning of the header. . . . But are you sure you want to do it? The stuff that seems to serve no purpose in your program? Imagine being told to "turn when you reach the intersection." The direction may be just fine. In the New Java Project dialog box, type a name for your project and then click Finish. You can even mix 32-bit versions and 64-bit versions on the same computer (as long as you have at least one Java version whose word length matches your Eclipse version). On my Mac, I have an eclipse folder inside my Applications folder. Micro Edition has software for handheld devices. With only 64-bit Java installed (continued)32 Part I: Getting Started with Java Programming (continued) on my computer, the Do I Have Java? Java programmers normally divide their code into one or more packages. Listing 4-1 has five such identifiers. Java came along in 1995, so it was natural for the language's founders to create a library of reusable code. Here's a brief summary: ✓ If you run Windows and the download is an.exe file: Double-click the .exe file's icon. If this happens to you, right-click the link (or control-click on a Mac). You may run a 32-bit web browser on a 64-bit operating system running on a 64-bit computer. The red marks in Eclipse's editor refer to compile-time errors in your Java code. Figure 3-17: The Package Explorer view's toolbar. This isn't one of those "all things to all people" books. 363 Understanding the Big Picture. . . . In Windows, the Start menu may not have an Eclipse icon. The realization that I don't understand something (or many things) in the code makes me nervous, the highest version number is probably safe. 79 The Elements in the Java Program. . . . No Java virtual machine was found error message. And don't forget — to get the latest information, visit one of this book's support websites. Then follow the instructions in the Linux, you probably don't have to worry In All Versions of Windows Bulletin. 409 Creating a bare-bones JavaFX project. . . . ✓ In Windows XP: Choose Start>Control Make sure that this check box is selected. 105 Expecting the Unexpected. . . .

121 Using variables. ✓ Getting psyched up to be a Java developer ✓ Installing the software ✓ Running some sample programs Chapter I Getting Started In This Chapter ▶ Realizing who computer programming is all about ▶ Understanding the software that enables you to write programs ▶ Revving up to use an integrated development environment Computer programming? If no, you can read the more detailed instructions the next several sections. ✓ Editor: A part of the Eclipse workbench that displays information for you to modify. ✓ Perspective: A very useful layout. 276 Creating Useful Code. . . . Most 32-bit software (See the figure that accompanies this sidebar.) runs fine on a 64-bit operating system. Most of the time, when you practice the stuff in this book, you're typing code on your keyboard, not pointing and clicking your mouse 4 Beginning Programming with Java For Dummies, 4th Edition On those rare occasions when you need to drag and drop, cut and paste, or plug and play, I guide you carefully through the steps. If the folder doesn't already exist, Eclipse creates the folder. To illustrate the point, I've drawn borders around each of the areas (see Figure 3-15). ✓ Eclipse is a very useful tool. One way or another, it's no big deal! Because this is your first time using a particular Eclipse workspace, Eclipse starts with a Welcome screen (see Figure 2-11). So, if your files are named Panel-Appearance and Personalization- Mortgage instead of Mortgage. In response, Eclipse reopens its Workspace Launcher dialog box. Here's the place to start. If this book refers to media such as a CD or DVD that is not included in the version you purchased, you may download this material at. . . . You can run the latest version of Java on Windows, Macintosh, and Linux computers. 177 Chapter 10: Which Way Did He Go? . . . 11 Chapter 2: Setting Up Your Computer. . . . 137 What you read is what you get. . . . When you use Eclipse's editor to write a Java program file. 22 Eclipse. . . . You're having a new baby. Like every other windowed environment, Eclipse provides many ways to accomplish this same task. The website offers a hassle-free, one-click Java installer. The Eclipse Workspace Launcher dialog box appears (see Figure 3-2).55Chapter 3: Running Programs Figure 3-2: The Eclipse Workspace Launcher With Eclipse, you can have several copies of the workbench open at once. In this part, you discover how to represent data and how to get new values from existing values. ✓ Area: A section of the workbench. In Figure 3-16, the MyFirstJavaClass.java editor is the active editor. Follow the appropriate links to get the download to begin. 77 Checking Out Java Code for the First Time. . . . The pro- gram calculates your monthly payments on a home mortgage loan. THE ADVICE AND STRATEGIES CONTAINED HEREIN MAY NOT BE SUITABLE FOR EVERY SITUATION. ✓ In Linux: Linux distributions tend not to Panel-Appearance and Themes-Folder hide filename extensions. Hover over the icons on Eclipse's Welcome screen until you find an icon whose tooltip contains the word Workbench. 391 Chapter 20: Ooey GUI Was a Worm. 77 Behold! A program! . . . /com/ and installing Java using the website's menus. If the steps don't quite fit, send me an e-mail message, or consult a book with instructions tailored to your system. These settings store things like the version of Java that you're using, the colors that you prefer for words in the editor, the size of the editor area when you drag the area's edges, and other things. Although you can make up your own meanings for words like System or println, doing so isn't a good idea — because you'd confuse the dickens out of other programmers, who are used to the standard API meanings for these familiar identifier names. You can change the selected operating system in that drop-down list. All the software you need for writing Java programs is free. 7 Part I: Getting Started with Java Programming. . . . I don't see a problem. . . . 371 Chapter 20: Ooey GUI Was a Worm. . . . Many views display information as lists or trees. Actually, as you run the mortgage program, you see two things in Eclipse's Console view: ✓ Messages and results that the mortgage program sends to you: Messages include things like How much are you borrowing?. 103 Getting numbers, words, and other things like Eclipse's Package Explorer, see the upcoming section "What's All That Stuff in Eclipse's Window?" 56 Part I: Getting Started with Java Programming Figure 3-3: The Eclipse workbench. Click anywhere inside Eclipse's Console view and then type a number, like 100000.00, and press Enter. 1 About This Book. . . . Here's how you decide which radio box to choose: First, make sure that you've heeded the advice that I give in the sidebar entitled "Those pesky filename extensions." Then look in the folder con- taining the file that you downloaded from this book's website. You see a NumberFormatException mes- sage in the Console view. As a beginning programmer, you don't need to think about this feature of Java. ✓ System: A canned program in the Java API. Think of me (the author) as your guide, your host, your personal assistant. You can even ignore the "Default Package Is Discouraged" warning near the top of the dialog box. Your check mark tells Eclipse to create some boilerplate Java code. To get a mortgage in real life, you pay more than the amount that my Java program calculates. 193 Forming Bigger and Better Conditions. . . . Wiley publishes in a variety of print and electronic formats and by print-on-demand. Here's one thing to remember about keywords: In Java, each keyword has an official, predetermined meaning. Like all novice programmers, you're expected to gawk humbly at the code. Nothing in this world is 100% safe, but I've downloaded and installed Eclipse a zillion times, and I've never had a problem with it. Computer programs have no formatting whatsoever. Running a Canned Java Program The best way to get to know Java is to do Java. ✓ If you've already done a little computer programming, be prepared to skip Chapters 6 through 8. Near the bottom of the figure, one of the quick fix options is to change system to System. But if you're not sure, bypass both a teeny little setup file. The numbering system's details aren't work with a particular number of bits. Again, refer to Figure 3-1. Within the Java branch on the left side of the Preferences dialog, select the compiler sub-branch. The only things you can't use to run this code are ancient things that are more than eight years old (give or take a few years). I refer to views and editors as parts of the Eclipse workbench. You may think you see formatting, words (words like class, public, and but you don't. ✓ I often call it a class file. Type a letter, print it, and then send the printout to someone you love. If you want to skip the sidebar and the Technical Stuff icons, please do. Otherwise (if the column number isn't greater than 60), then stay on the same line. A newer version of the JDK, you don't need to few years after that, the captains of Java download the JDK again. As a result, the main Eclipse workbench reappears, ference, and why should you care? 394 Showing an image on the screen. . . . • If your web browser automatically uncompresses downloaded .zip files, you'll find this book's code in a directory (a folder) named BeginProgJavaDummies4. 425 Finding News, Reviews, and Sample Code. . . . Your Java software's word length Finding Java on your computer Chapter 1 describes the Java ecosystem with its compiler, its virtual machine, and its other parts. 301 Nesting the enhanced for loops. . . . Instead, you download goodies. In the Java Control Panel, select the Java tab (see Figure 2-6). • Spell each word exactly the way I spell it in Listing 3-1. 248 Fixing the problem. . . . These docs are in web page format, so they're easy to find and easy to navigate. 368 Chapter 19: Creating New Java Methods. Now, I admit that writing and running a Java program is a lot of work just to get the words Chocolate, royalties, sleep to appear on some- body's computer screen, but every endeavor has to start somewhere. 3 How This Book Is Organized. . . . If your preferred version of Java appears in the Installed JREs list, put a check mark in that version's check box. 245 Working on the problem. . . . Click the Workbench icon to open Eclipse's main screen. How This Book Is Organized This book is divided into subsections which are grouped into sections, which come together to make chapters, which are lumped finally into five parts. Typically, as an author, I have two reasons. 277 How it feels to be a computer. . . . When in doubt, search for a directory whose name starts with jre or jdk. You can find all such extras bundled together at www.dummies. 412 Taking Action. . . . But if I have no trouble navigating the Eclipse IDE, don't complicate things by fussing over the terminology in this section. Look for the newest available version of the JDK. You're almost done. In Java, almost all these identifiers are defined in the Java API. Visit www.oracle.com/technetwork/java/javase/downloads and get the latest available version of the JDK. When you follow this chapter's .rar files, and .cab files. Like other authors, I occasionally become lazy and use the word "view" when I really mean "view or editor." When you catch me doing this, just shake your head and move onward. In fact, if you want to skip anything at all, feel free. 426 Everyone's Favorite Sites. . . . You can run the code in this book on almost any computer. 378 Let the Objects Do the Work. . . . 135 Chapter 8: Numbers? Java's default package is a package with no name — a catchall location for code that isn't otherwise pack- aged. The firm wrote code for word-processing machines. If you like what you read, send me an e-mail, post on my Facebook wall, or tweet me a tweet. When you first try to launch Eclipse, if you haven't already installed Java, your computer advises you to do so.) Table 2-1 describes the correlations between Mac OS and Java versions. Here's depends on the match between my comput- er's Java version and the web browser that I'm running. This Java API is both useful and formidable. In fact, the most crucial figure, or at anything like it. 286 The anatomy of a for statement. . . . Each of these things (each item in the menu) is called an action.70 Part I: Getting Started with Java Programming Figure 3-15: The work- bench is divided into areas. Here's dialog box, select the Advanced tab and how you do it: look for the Show All File Extensions option. The book will be really short because you can summarize the action of Listing 4-1 in just one sentence. Well, the program has to get translated into zeros and ones. java/javase/downloads) has many Next come versions 1.3 and 1.4. After ver- options. But a warning can be an indicator that something more serious is wrong with your code. Alternatively, you may have modi- fied the stuff in the Launcher's Workspace field in Step 2 of this section's instructions. 344 Classes, objects, and tables. . . . Control-click the application entry and, in the resulting context menu, select Open. 311 Deciding on a loop's limit at runtime. . . . 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