**Introduction to Java Programming - Using the Java Scanner Class**

Here is an example of using the new Scanner Class for inputting items in Java. The Scanner Class can be used as an alternative to the Buffered Reader Class.

**Figure 1 Scanner Class Example**

|  |
| --- |
| **import java.util.Scanner;**  **class ScannerClassExample {**  **//example of using scanner class for input and output**    **public static void main(String args[]) {**  **//declare a Scanner class object**  **Scanner sc = new Scanner(System.in);**    **//prompt user for their name**  **System.out.println("please enter your name");**    **//declare a local variable and read the integer**  **String name = sc.nextLine();**    **//display the name back to the user**  **System.out.println("hello " + name);**    **//prompt user for an integer number**  **System.out.println("please enter an integer");**    **//declare a local variable and read the integer**  **int num = sc.nextInt();**    **//display the number back to the user**  **System.out.println("you entered " + num);**  **//prompt user for an decimal number**  **System.out.println("please enter a real number");**    **//declare a local variable and read the decimal**  **double dec = sc.nextDouble();**    **//display the number back to the user**  **System.out.println("you entered " + dec);**    **//prompt user for a character**  **System.out.println("please enter a character");**    **//declare a local variable and read the character**  **String letter = sc.next();**    **char myChar;**  **myChar = letter.charAt(0);**  **//display the number back to the user**  **System.out.println("you entered " + myChar);**    **sc.close();**  **}**  **}** |

Here is a sample program run using the preceding code.

