2.7   Exercises

Write a complete Python program to solve each of the following problems. Use formatted strings to make nice output statements. Note that a few of these require *if*-statements. Well discuss these statements in detail in the next chapter; for you you might look at program **??** for an illustration of *if*-statements.

2.1. Write a program that asks the user to enter two numbers and then prints the product of those numbers. Here is a typical run of the program:

> **Enter a number: 23**
> **Enter another number: 45**
> **23 x 45 is 1035**

2.2. Write a program that asks the user to enter a string, and then reports the number of letters in that string. Here is a typical run:

> **Enter a string: Ask not what you can do for your country.**
> **That string has 41 letters.**

2.3. Write a program that asks the user to enter one number. The program should then say if that number is even or odd. Remember that a number x is even if x%2 is 0, and odd if x%2 is 1. Here is a a typical run:

> **Enter a number: 23**
> **23 is an odd number.**

Here is another run:

> **Enter a number: 34**
> **34 is an even number.**

2.4. Write a program that asks the user to enter two numbers and then prints the smaller of those numbers. Here is a typical run:

> **Enter a number: 34**
> **Enter another number: 23**
> **The smaller of those is 23**

2.5. Redo program (2.4), but with three numbers. You will have to do more logic to figure out which is the smallest number:

> **Enter one number: 23**
> **Enter another number: 16**
> **Enter yet another number: 45**
> **The smallest of those is 16**

2.6. Write a program that inputs a non-negative integer as a number of cents and prints that value in the standard dollars-and-cents format. For example, with input 405 the output should be $4.05; for 23 the output should be $0.23, and for 1900 the output should be $19.00.