Getting Started

Global Variables

If you want more than one function to share a single copy of a variable, simply declare the variable asglobal in all the functions. Do the same thing at the command line if you want the base workspace to access the variable. The global declaration must occur before the variable is actually used in a function. Although it is not required, using capital letters for the names of global variables helps distinguish them from other variables. For example, create an M-file called falling.m:

```
function h = falling(t)
global GRAVITY
h = 1/2*GRAVITY*t.^2;
```

Then interactively enter the statements

```
global GRAVITY
GRAVITY = 32;
y = falling((0:.1:5)');
```

The two global statements make the value assigned togRAVITY at the command prompt available inside the function. You can then modifyGRAVITY interactively and obtain new solutions without editing any files.

Types of Functions Passing String Arguments to Functions

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