To Compute	Keystrokes	Display
(floating-point decimal)	f FLOAT 4 BSP	0.0000
$-4.9 \div 6$	4.9 CHS ENTER 6 ÷	-0.8167
$\sqrt{60}$	60 g $\sqrt{x}$	7.7460

Programmed Solutions

Writing a Program. The HP-16C is keystroke-programmable: you can program it simply by recording the same keystrokes you use to evaluate a problem manually.

Example: Write an iterative program that adds 1 continually to a given number.

Keystrokes	Display*	
g P/R	000–	Sets calculator to Program mode (**PRGM** annunciator on). Line 000.
f CLEAR PRGM	000–	Clears program memory.
g LBL A	001–43,22, A	Assigns this program label "A".
1	002– 1	Line 002: 1.
+	003– 40	Line 003: adds 1 to whatever is in display when program is run.
f SHOW BIN	004– 42 26	Momentarily pauses and displays binary result.
GTO A	005– 22 A	Continues execution in a loop.

*The display includes line numbers and keycodes. Keycodes are two-digit numbers that indicate the row and column position of the key(s) pressed.

Keystrokes	Display	
[g] [P/R]		Returns calculator to Run mode; no **PRGM** annunciator. Display will show the result of the last calculation performed.

Running the Program. Key the starting number (for example, zero) into the display. You do not need to use [ENTER] since starting the program will separate the two numbers to be added. The program above adds 1 to whatever number you key in.

Keystrokes	Display	
[DEC]		Converts to Integer mode, base 10. (You can start in any number base; the program will display the numbers in binary.)
16 [f] [WSIZE]		Sets word size to 16.
0	**0 d**	Initial number: 0.
[GSB] A	**1 b**	Addresses and starts a program with label "A".
	10 b	
	11 b	The momentary displays are binary.
	100 b	
	⋮	
[R/S]	**22 d**	Since this is an endless loop, stop program execution with [R/S] (*run/stop*). The display shows the decimal equivalent of the binary value at the particular moment you press [R/S].

This introduction to the HP-16C should give you a feel for its operation. It is only a glimpse, however; for a look at the dozens of other powerful HP-16C functions, turn the page and explore Part I, HP-16C Fundamentals.