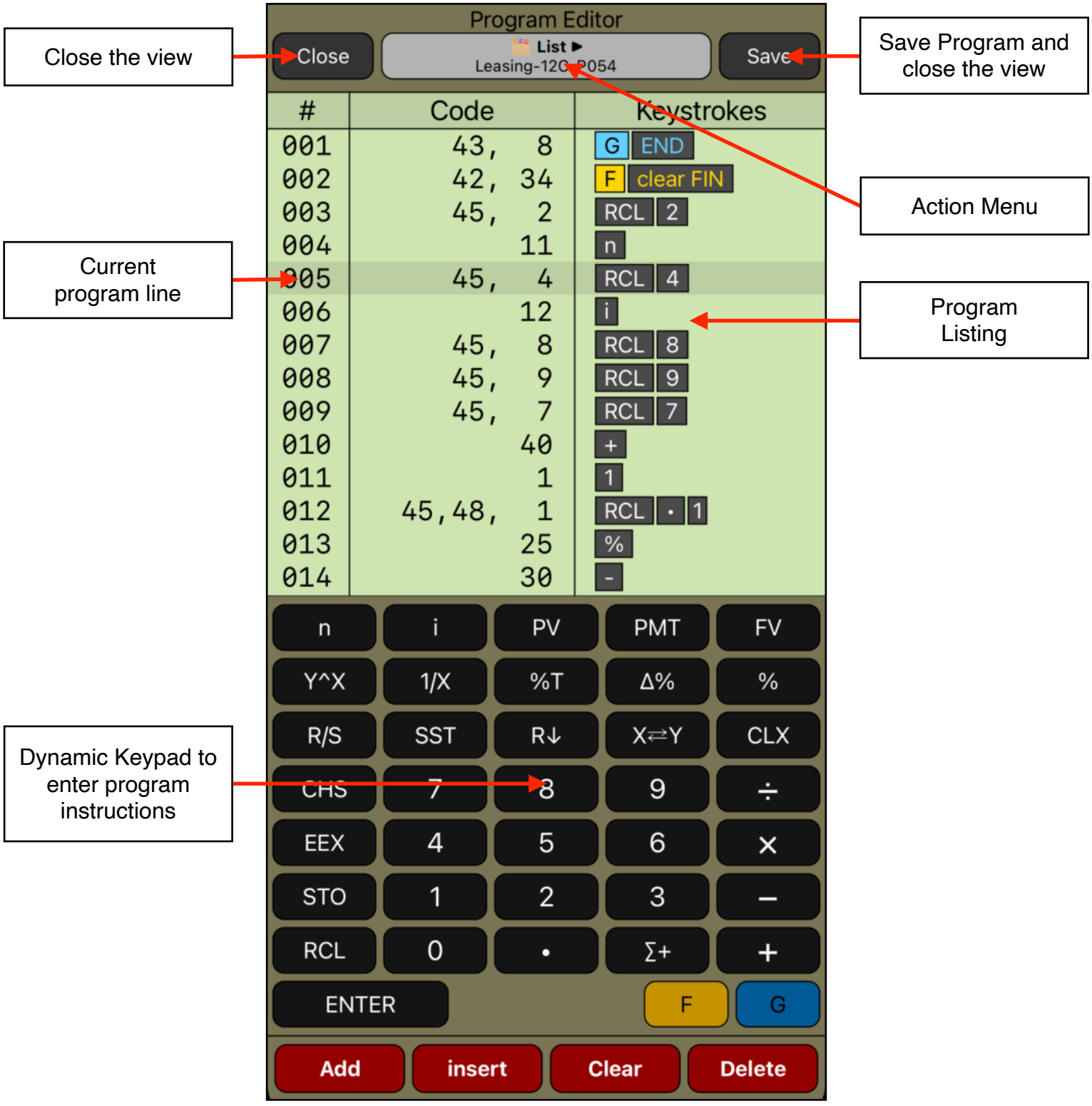
Program Editor

In this view you can enter or edit a program in a convenient way. To show it, press **[f] [P/R]** (**R/S** key) on the calculator's keyboard or select "**Editor**" or "**New…**" in the "**Program**" button in the Main menu.



List ▶	Opens the editor's action menu.
New	Clears the editor to enter a new program (line 001 starts as GTO 000).
Name…	Shows a pop-up to name the program.
Load >	Shows a submenu to load a previously saved program.
Delete	Deletes the current program from the list of saved programs.
Close	Closes the editor without saving.
Save	Saves the program in the calculator's program memory and closes the editor.
Add	Adds a new program line at the end of the listing.
Insert	Inserts a new program line before the selected one.
Clear	Clears the selected program line.
Delete	Removes the selected program line from the listing.

A program can have up to 1000 lines, so **[g] GTO** always takes three digits (000 to 999): the HP-12C's GTO 07 is keyed GTO 007 here. A program for the HP-12C pasted through Memory Content gets the 0 added in front of a two-digit GTO line when it is loaded.

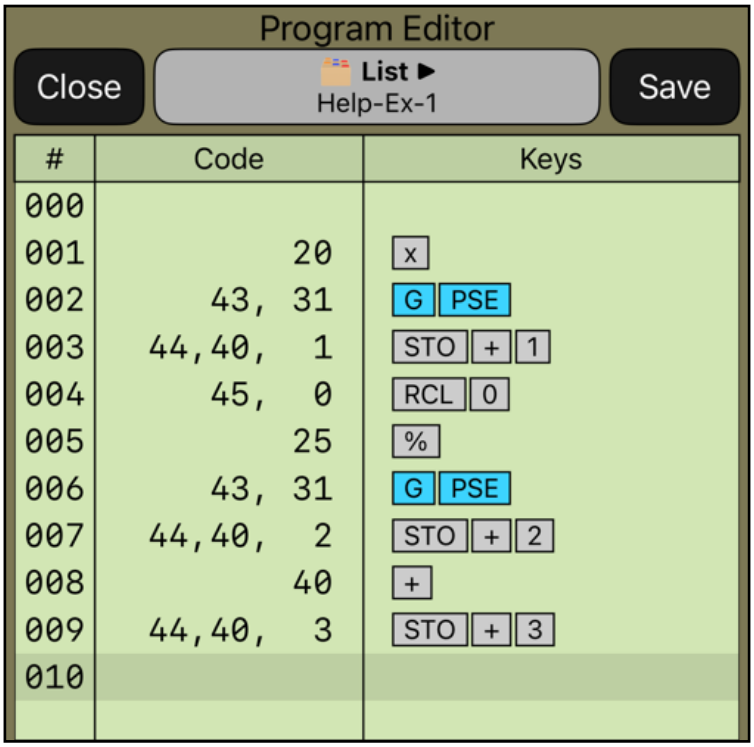
Example 1:

Create a program that calculates Tax and Total of an entry Amount for each product for a distributor's invoice. Also calculates the total of all entries on the invoice assuming a tax rate of 6.75%.

Solution: register $\mathbf{R_0}$ holds the tax rate, and $\mathbf{R_1}$, $\mathbf{R_2}$ and $\mathbf{R_3}$ add up the net amount, the tax and the total of the invoice. Open the Program Editor (**[f] P/R**), choose **List ▶ New** and key the program:

Keys	Comment
[x]	Multiply the quantity and price of the current item.
[G] [PSE]	Pause to show the item amount in the display.
[STO] [+] [1]	Add the item amount to Storage Register 1.
[RCL] [0]	Recall the tax rate.
[%]	Calculates the Tax to add to the item.
[G] [PSE]	Pause to show the tax in the display.
[STO] [+] [2]	Add the item tax to Storage Register 2.
[+]	Calculate the item total amount.
[STO] [+] [3]	Add the total amount to Storage Register 3.
[Name ▶] Name…	Shows a Name entry form to name the program.
Type “Help-Ex-1” and **[Done]**	Name the program “Help-Ex-1”.

After the above sequence, the Program Editor view should be as follow:



Finally, tap the **[Save]** button to close the view and save the program to the calculator's program memory and get ready to use it.

Now that we have the above program in the calculator's program memory,
Calculate the total of an invoice with a 6.75% of tax rate:
Product 1 : 13 items at $68.5 each
Product 2 : 18 items at $72.9 each
Product 3 : 24 items at $85.0 each
Product 4 : 5 items at $345.0 each

Solution:

Keys	Comment
[f] [Σ]	Clears the storage registers 1 to 6
6.75 **[STO] [0]**	Store the tax rate in register 0.
13 **[Enter]** 68.5 **[R/S]**	Input the Product 1 data and run the program: **890.50** for item amount **60.11** for tax amount **950.61** for total amount
18 **[Enter]** 72.9 **[R/S]**	Input the Product 2 data and run the program: **1,312.20** for item amount **88.57** for tax amount **1,400.77** for total amount
24 **[Enter]** 85.0 **[R/S]**	Input the Product 3 data and run the program: **2,040.00** for item amount **137.70** for tax amount **2,177.70** for total amount
5 **[Enter]** 345.0 **[R/S]**	Input the Product 4 data and run the program: **1,725.00** for item amount **116.44** for tax amount **1,841.44** for total amount
[RCL] [1] **[RCL] [2]** **[RCL] [3]**	Sum of the items amount. **Result = 5,967.70** Sum of the tax amount. **Result = 402.82** Sum of the total amount. **Result = 6,370.52**

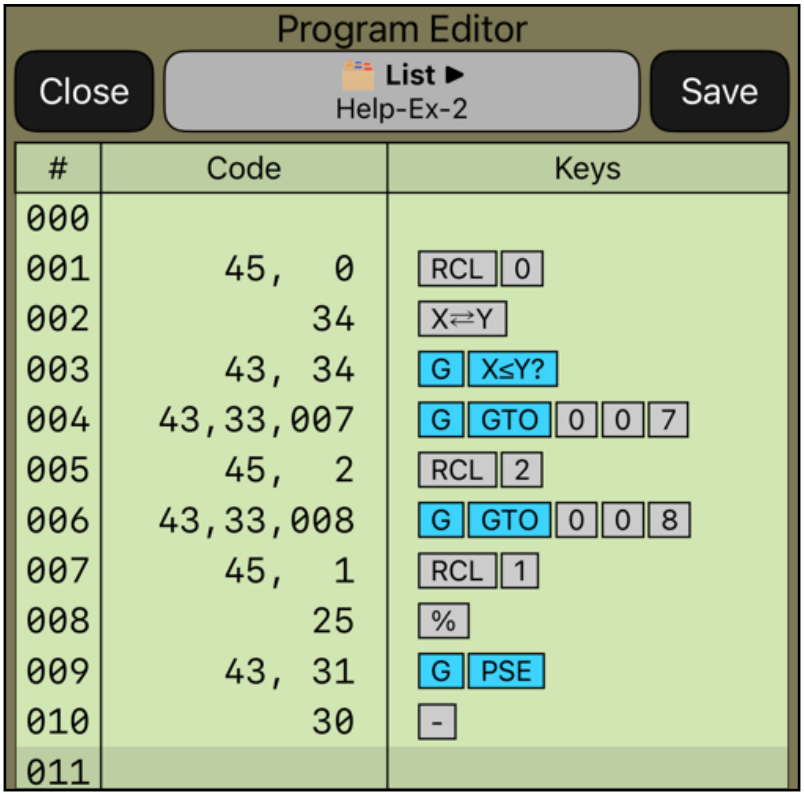
Example 2: Variable Tax Rate Program

The following program calculates income tax and the net value applying different tax rates depending on the test value stored in $\mathbf{R_0}$. If the value is less than or equal to a test value, the tax rate stored in $\mathbf{R_1}$ is used, otherwise the tax rate stored in $\mathbf{R_2}$ is used.

Enter the program in the calculator following the next sequence:

Keystrokes	Description
[f] [P / R]	Shows the **Program Editor** view
[f] [clr.PRG]	Clear the current program.
[RCL] 0	Recall the test amount for comparison.
[X⇆Y]	Swap stack-X and stack-Y
[g] [X ≤ Y]	Compare the entered value with the test value.
[g] [GTO] **007**	Execution continues at line 007 if the entered value is less than or equal to the test value.
[RCL] 2	Recall the tax rate for amounts greater than the test value.
[g] [GTO] **008**	Jump to line 008 to calculate the tax amount
[RCL] 1	Recall the tax rate for amounts less than or equal to the test value
[%]	Calculate the tax amount applying the proper tax rate to the entered value.
[g] [PSE]	Pause execution to display the tax amount
[-]	Subtract tax amount from the entered amount and program stops showing the net amount.
[Name ▶] **Name…**	Shows a Name entry form to name the program.
Type “Help-Ex-2” and [Done]	Name the program “Help-Ex-2”.

After the above sequence, the Program Editor view should be as follow:



Finally, tap the **[Save]** button to close the view and save the program to the calculator's program memory and get ready to use it.
If the test value is $20,000; the tax rate for values less than or equal to test value is 20%, and for greater values is 25%. What is the tax amount and the net amount for $15,000; $20,000 and $25,000 incomes?

Keys	Comment
20000 **[STO] [0]** 20 **[STO] [1]** 25 **[STO] [2]**	Store the test value in register 0. Store the tax rate to apply for value ≤ test value. Store tax rate to apply for value > test value.
Type 15000 **[R/S]**	Input the income value and run the program: **3,000.00** pause to show the tax amount **12,000.00** program stop showing the net amount
Type 20000 **[R/S]**	Input the income value and run the program: **4,000.00** pause to show the tax amount **16,000.00** program stop showing the net amount
Type 25000 **[R/S]**	Input the income value and run the program: **6,250.00** pause to show the tax amount **18,750.00** program stop showing the net amount