

## CodeXplorer – Help

CodeXplorer™ provides interactive descriptions of the statements and variables in a program. It also shows the relationship between the statements and variables. Flow of control is visualized with arrows for decision structures, repetition, and function calls. Further, code can be copied from CodeXplorer to an IDE or AI tool.

**Code Example Help:** Click on the title of the code example (at top) to see an overall description of the program.

**Statement Help:** Click on a statement to see:

- a help box describing the statement
- variables used in the statement, highlighted in the variable section (at right), also noting:
  - > variable action is set in statement
  - <- variable action is accessed in statement
  - <-> variable is both accessed and set in statement

**Variable Help:** Click on a variable name (in the right section), to see:

- a help box describing the variable
- the statements where the variable is used, highlighted in the code

**Flow of Control Visualization:** For decision structures (if/elif/else), repetition (while, for), and function calls, program flow is indicated for the selected statement using arrows.

**Copy & Paste Code:** Click on the [Copy] button, to copy code to the system clipboard, for pasting into:

- an integrated development environment (IDE), to run the program
- an AI tool, to ask further questions about the program

**Syntax highlighting** is used in the code to distinguish:

keywords

variables

numeric constants

string constants

function names

comments