Exercise 62:

1. **Set Breakpoints**:
   * Click on the **gutter** next to the code line (a red dot will appear). Or press Ctrl + F8 (Windows/Linux) or Cmd + F8 (macOS).
2. **Start the Debugger**:
   * Click the **bug icon** at the top or press Shift + F9 to start the program in debug mode.
3. **Basic Debugging Actions**:
   * **Step Over (F8)**: Skip over the current line.
   * **Step Into (F7)**: Step into the function to see its details.
   * **Step Out (Shift + F8)**: Exit the current function.
   * **Resume (F9)**: Continue running to the next breakpoint.
   * **Run to Cursor**: Run to the current cursor position without needing a breakpoint.
4. **Inspect Variables**:
   * View variable values in the **Variables pane**.
   * Add expressions to **Watches** to monitor variable values over time.
5. **Use the Debug Console**:
   * Enter commands directly in the **Debug Console** to inspect variables or test code snippets.
6. **Set Conditional Breakpoints**:
   * Right-click on a breakpoint and add a condition so it only triggers when the condition is true.
7. **Handling Exceptions**:
   * If an error occurs, PyCharm stops at the exception, showing the **stack trace** for analysis.
8. **Run Debug Configuration**:
   * Go to **Run > Edit Configurations** to set up the environment and parameters before starting the debugger.