Exercise 1: Working with Excel VBA Macros

Part 1: Recording a Simple Macro

Instructions:

1. Open a new Excel workbook.
2. Go to the Developer Tab → Record Macro.
3. Name the macro: FormatSheet
4. While recording:
   * Select cells A1:C1.
   * Apply Bold formatting.
   * Fill with light blue color.
5. Stop recording the macro.

Outcome: You have created your first recorded macro!

Part 2: Introducing an Error

Instructions:

1. Press Alt + F11 to open the VBA Editor.
2. Find your recorded macro under Modules.
3. Modify the code by changing the cell range incorrectly:



Part 3: Debugging with Breakpoints

Instructions:

1. Set a breakpoint on the modified line by clicking on the margin or pressing F9.
2. Run the macro by pressing F5.
3. When execution pauses at the breakpoint:
   * Hover over Range("A1:C10") to inspect it.
   * Notice it’s selecting more cells than intended.
4. Use F8 to step line-by-line and see how formatting is applied.

Part 4: Using the Immediate Window and Watches

Instructions:

1. Press Ctrl + G to open the Immediate Window.
2. Type and press Enter:



to confirm what range is selected.

1. Add a Watch on Selection:

* Right-click on Selection
* Choose Add Watch
* See the real-time value as you step through the code.

Final Task:

* Fix the macro back to Range("A1:C1").
* Remove the breakpoint (click margin again or F9).
* Test the macro again until it formats only A1:C1 correctly.

Key Skills Practiced

* Recording Macros
* Understanding and spotting errors
* Setting breakpoints and using F8 to step
* Using the Immediate Window and Watches to inspect code