6. Basic Timer Countdown

- **Objective**: Set a timer for a specified number of seconds, then count down to zero and display a "Time's Up" message.
- Steps for the Algorithm:
 - 1. **Display instructions**: Explain how the timer works.
 - 2. **Get countdown time**: Ask the user to input a number of seconds.
 - 3. **Validate input**: Ensure the input is a positive integer.
 - 4. Start countdown: Use a loop to decrement the time by one second.
 - 5. **Display countdown**: Show the remaining time each second.
 - 6. **End the timer**: When the countdown reaches zero, display "Time's Up."

To create an absolute reference in Excel on a Mac, you can use the following method:

- 1. Type your formula as you normally would (e.g., =A1 + B1).
- 2. Convert a cell reference to absolute by clicking on the cell reference within the formula and pressing Command (\mathbb{H}) + T.
 - Pressing Command + T repeatedly will cycle through the different types of references:
 - \$A\$1 (absolute reference for both row and column),
 - A\$1 (absolute reference for the row only),
 - \$A1 (absolute reference for the column only),
 - A1 (relative reference).
- 3. Confirm the formula by pressing Enter.

Using absolute references ensures that your cell references remain fixed when copying the formula to other cells.

Flowchart Interpretation:

- 1. Start: Begin the process.
- 2. Input number: User inputs a number.
- 3. Decision: The program checks whether the number is divisible by 2 (i.e., number % 2 == 0).
- 4. Yes/No paths:
 - If Yes, the number is even.
 - If No, the number is odd.

5. End: The program finishes.

Would you like to see a visual representation of this example?