 **Load the Excel File**: The script reads the Excel file at the specified path (file\_path) into a Pandas DataFrame (df). The file is assumed to contain historical data on epidemic and pandemic events, including a column with death toll estimates.

 **Define Processing Function**: The process\_death\_toll function takes each entry in the "Death toll (estimate)" column and converts it to an integer value, following specific steps:

* **Text Cleaning**:
  + Removes any text within parentheses.
  + Normalizes spacing within the text.
* **Identify Numerical Values**:
  + If the entry is a whole number, it’s directly converted to an integer.
  + Handles "million" and "billion" notations by converting to appropriate integer values, accounting for ranges (e.g., "2-3 million" becomes 3 million).
  + Converts range formats (e.g., "5-10" becomes 10).
  + Handles values with a + symbol, treating them as minimum estimates (e.g., "10,000+" becomes 10,000).
* **Fallback for Unhandled Cases**:
  + If an unexpected format is encountered, it prompts the user for manual input or allows the user to type "Unknown" if the value cannot be estimated.

 **Apply Processing Function**: The process\_death\_toll function is applied to the "Death toll (estimate)" column, storing processed values in a new column, "G".

 **Display the DataFrame**: It prints the modified DataFrame, showing the processed death toll values.

 **Save Results to Excel**: Finally, the script saves the modified DataFrame to a new Excel file named "processed\_death\_toll.xlsx", preserving the changes.