# Python Code Explanation: Chat Export

1. User Query: Help me understand the Python functions in this code:  
 analysis\_results = (  
 "Financial Analysis\n"  
 "----------------------------\n"  
 f"Total Months: {total\_months}\n"  
 f"Total: ${net\_total}\n"  
 f"Average Change: ${average\_change:.2f}\n"  
 f"Greatest Increase in Profits: {greatest\_increase['date']} (${greatest\_increase['amount']})\n"  
 f"Greatest Decrease in Profits: {greatest\_decrease['date']} (${greatest\_decrease['amount']})"  
 )  
  
2. Assistant Explanation:  
  
- \*\*Multi-Line String\*\*:  
 Combines multiple lines into a single string using parentheses `()` and newline `\n`.  
  
- \*\*f-Strings\*\*:  
 Embeds values into the string dynamically.  
 For example:  
 f"Total Months: {total\_months}\n" inserts the value of `total\_months`.  
  
- \*\*Dictionary Access\*\*:  
 Retrieves values using `dictionary[key]`.   
 For instance:  
 f"Greatest Increase in Profits: {greatest\_increase['date']} (${greatest\_increase['amount']})"  
  
- \*\*Formatted String Output\*\*:  
 Example Output:  
 Financial Analysis  
 ----------------------------  
 Total Months: 86  
 Total: $22564198  
 Average Change: $-8311.11  
 Greatest Increase in Profits: Aug-16 ($1862002)  
 Greatest Decrease in Profits: Feb-14 ($-1825558)  
  
- \*\*Summary\*\*:  
 The code creates a well-formatted string summarizing the financial analysis results.