1. **list\_binary\_n(n)**:
   * This function generates a list of binary numbers of a specified length **n** without adjacent 1 bits.
   * It takes an integer **n** as input, which represents the length of the binary numbers to generate.
   * It uses a recursive inner function **list\_binary\_str** to generate binary strings of length **n**.
   * The inner function ensures that adjacent 1 bits are not present in the generated strings.
   * The function returns a list of binary numbers without adjacent 1 bits.
2. **count\_binary\_n\_without\_adj1(binary\_n)**:
   * This function counts the number of binary numbers without adjacent 1 bits in each list of binary numbers.
   * It takes a list of strings **binary\_n** as input, where each string represents a binary number.
   * It checks each binary number in the list to ensure there are no adjacent 1 bits and increments the count accordingly.
   * The function returns the count of binary numbers without adjacent 1 bits.
3. **create\_pattern(max\_length)**:
   * This function generates a pattern of counts for binary numbers of different lengths, from 1 to the specified **max\_length**.
   * It takes an integer **max\_length** as input, representing the maximum length of binary numbers to consider.
   * It iterates through different binary number lengths and uses the **list\_binary\_n** and **count\_binary\_n\_without\_adj1** functions to create a dictionary with the counts.
   * The dictionary contains the counts of binary numbers without adjacent 1 bits for different lengths.
   * It returns this dictionary.
4. **print\_pattern(pattern)**:
   * This function prints the pattern of counts in a formatted table.
   * It takes a dictionary **pattern** as input, which contains the counts of binary numbers without adjacent 1 bits for different lengths.
   * It prints the counts in a tabular format, showing the number of digits and the corresponding count for each length.

The example usage provided at the end demonstrates how these functions work together to generate and display the pattern of counts for binary numbers without adjacent 1 bits for a specified **max\_length**.