In [3]: import re # Define regular expressions for Markdown patterns header_pattern = $r'^{(\#\{1,6\})}$ (.+)\$' bold_pattern = r'**(.+?)** $italic_pattern = r' \ (.+?) \ '$ unordered_list_pattern = $r'^* (.+)$ \$' $paragraph_pattern = r'(.+?)'$ def markdown_to_html(markdown_text): def handle_headers(match): level, text = match.group(1), match.group(2) return f'<h{len(level)}>{text}</h{len(level)}>' def handle_bold(match): return f'{match.group(1)}' def handle_italic(match): return f'{match.group(1)}' def handle_unordered_list(match): return f'{match.group(1)}' # Define the order of replacement patterns = [(header_pattern, handle_headers), (bold_pattern, handle_bold), (italic_pattern, handle_italic), (unordered_list_pattern, handle_unordered_list), (paragraph_pattern, r' 1 '),] html_text = markdown_text for pattern, replacement in patterns: html_text = re.sub(pattern, replacement, html_text, flags=re.MULTILINE) return html_text markdown_text = """ # Heading 1 ## Heading 2 This is a **bold** and *italic* text. * List item 1 * List item 2 This is a paragraph. html_output = markdown_to_html(markdown_text) print(html_output)

<(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)<p><(p)