[2211cs020206]Write a Python function that takes a string as input and extracts all the emojis present in the text and create a bar chart or word cloud showing the frequency of each emoji

In [1]:

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import re
from collections import Counter
import matplotlib.pyplot as plt
from wordcloud import WordCloud

# Function to extract emojis from text
def extract_emojis(text):
    emoji_pattern = re.compile("["
                               u"\U0001F600-\U0001F64F"  # emoticons
                               u"\U0001F300-\U0001F5FF"  # symbols & pictog
                               u"\U0001F680-\U0001F6FF"  # transport & map
                               u"\U0001F1E0-\U0001F1FF"  # flags (iOS)
                               "]+", flags=re.UNICODE)
    return emoji_pattern.findall(text)

# Function to create a bar chart of emoji frequencies
def plot_emoji_frequencies(emoji_list):
    emoji_counts = Counter(emoji_list)
    emojis, counts = zip(*emoji_counts.items())
    plt.bar(emojis, counts)
    plt.xlabel('Emojis')
    plt.ylabel('Frequency')
    plt.title('Emoji Frequency')
    plt.show()

# Function to create a word cloud of emoji frequencies
def create_emoji_wordcloud(emoji_list):
    emoji_counts = Counter(emoji_list)
    wordcloud = WordCloud(width=800, height=400, background_color='whit
    plt.imshow(wordcloud, interpolation='bilinear')
    plt.axis('off')
    plt.show()

# Example usage
text = "I love programming! 😀👨‍💻💻📚 Let's write some Python code! 🐍🚀"
emoji_list = extract_emojis(text)
plot_emoji_frequencies(emoji_list)
create_emoji_wordcloud(emoji_list)
```

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C:\Users\nihar\Anaconda3\lib\site-packages\IPython\core\pylabtools.py:151:
UserWarning: Glyph 128104 (\N{MAN}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Users\nihar\Anaconda3\lib\site-packages\IPython\core\pylabtools.py:151:
UserWarning: Glyph 128187 (\N{PERSONAL COMPUTER}) missing from current fon
t.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Users\nihar\Anaconda3\lib\site-packages\IPython\core\pylabtools.py:151:
UserWarning: Glyph 128218 (\N{BOOKS}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Users\nihar\Anaconda3\lib\site-packages\IPython\core\pylabtools.py:151:
UserWarning: Glyph 128013 (\N{SNAKE}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Users\nihar\Anaconda3\lib\site-packages\IPython\core\pylabtools.py:151:
UserWarning: Glyph 128640 (\N{ROCKET}) missing from current font.
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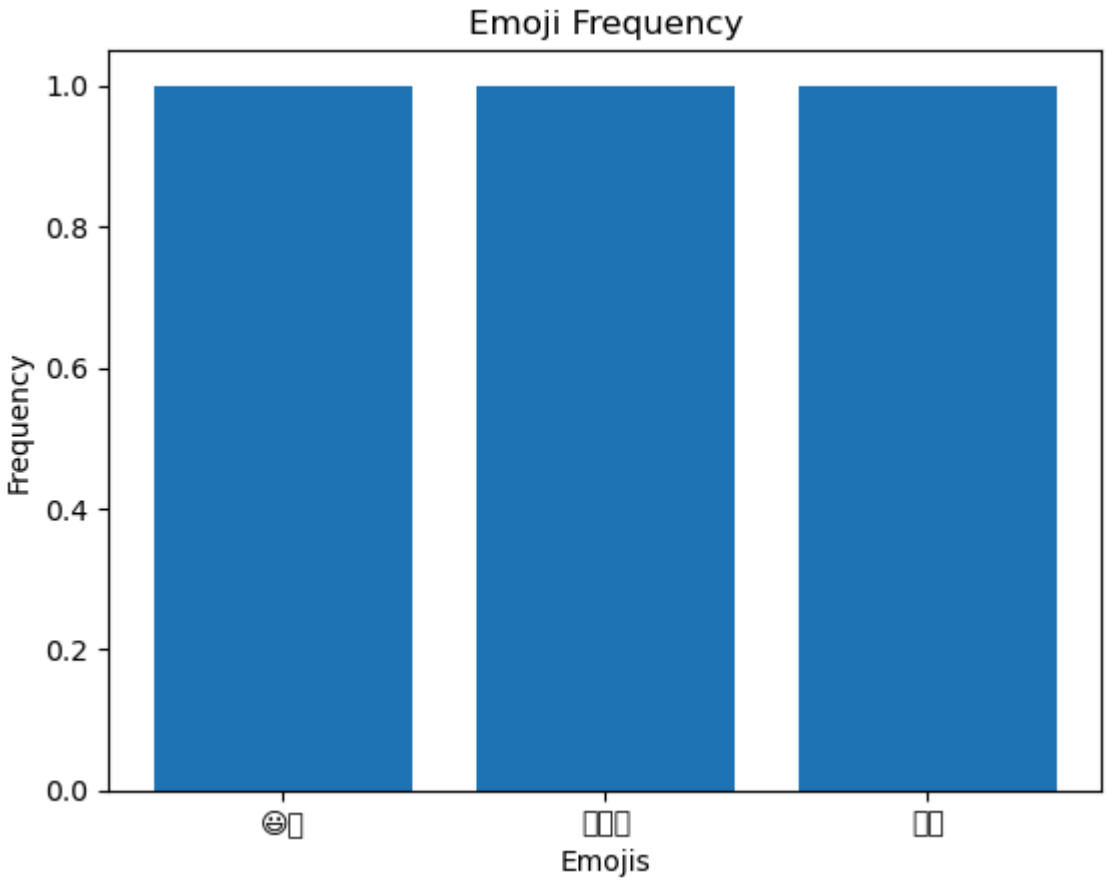

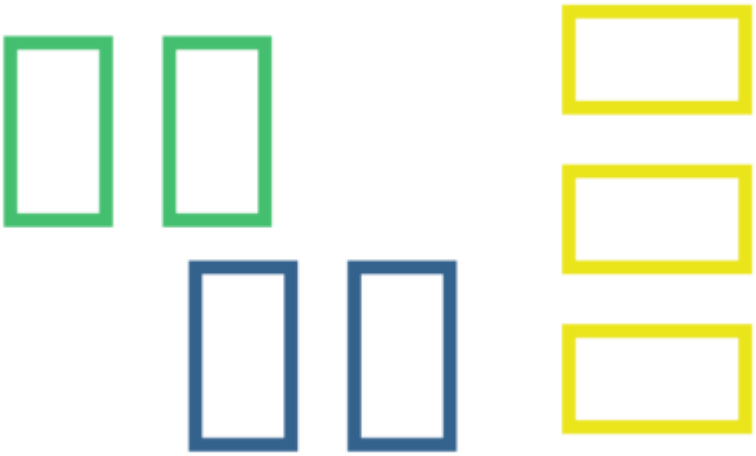

In [ ]:
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