```python
# Frankie_Data_extraction.py

def read_data(file_path):
    data = []
    with open(file_path, 'r') as file:
        for line in file:
            # Splitting the line by tabs
            parts = line.strip().split('\t')
            # Extracting CH2 voltage and CH1 current
            ch2_voltage = float(parts[4])
            ch1_current = float(parts[2])
            # Creating a list of CH2 voltage and CH1 current and appending it to data
            data.append([ch2_voltage, ch1_current])
    return data

def write_data(data, file_path):
    with open(file_path, 'w') as file:
        for sublist in data:
            # Convert the sublist elements to strings and join them with a tab separator
            line = '\t'.join(str(x) for x in sublist) + '\n'
            file.write(line)

file_path = "data_1_frankie.txt"  # Replace this with the actual file path
data = read_data(file_path)
print(data)


file_path = "voltage_vs_current_table_final.txt"

write_data(data, file_path)
```