```python
# Low_pass_filter.py

def read_file_into_list(file_path):
    data = []
    with open(file_path, 'r') as file:
        for line in file:
            # Split each line into two parts (assuming columns are separated by whitespace)
            parts = line.strip().split()
            # Convert the parts into floats and append to the data list
            data.append([float(parts[0]), float(parts[1])])
    return data



def apply_low_pass_filter(data, window_size, step_size):
    filtered_data = []
    for i in range(0, len(data), step_size):  # Adjusted to iterate with step size
        # Calculate start and end indices for the moving average window
        start_index = max(0, i - window_size + 1)
        end_index = min(i + step_size, len(data))

        # Apply the moving average filter
        x_filtered = sum(d[0] for d in data[start_index:end_index]) / (end_index - start_index)
        y_filtered = sum(d[1] for d in data[start_index:end_index]) / (end_index - start_index)

        # Calculate uncertainties as the range of the filter
        x_uncertainty = abs(data[end_index - 1][0] - data[start_index][0]) / 2
        y_uncertainty = abs(data[end_index - 1][1] - data[start_index][1]) / 2

        filtered_data.append([x_filtered, y_filtered, x_uncertainty, y_uncertainty])

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    return filtered_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)

# Example usage:
file_path = "voltage_vs_current_table_final.txt"  # Replace this with the actual file path
new_file = "filtered_data_final10.txt"
data = read_file_into_list(file_path)

window_size = 30
step_size = 8
filtered_data = apply_low_pass_filter(data, window_size, step_size)

print(filtered_data)

write_data(filtered_data, new_file)

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