```
clc; clear; close all;

original_data = 'AAAABBBCCDAA';

encoded_data = rle_encode(original_data);
disp(['Encoded Data: ', encoded_data]);
```

Encoded Data: A4B3C2D1A2

```
decoded_data = rle_decode(encoded_data);
disp(['Decoded Data: ', decoded_data]);
```

Decoded Data: AAAABBBCCDAA

```
if strcmp(original_data, decoded_data)
    disp('RLE encoding and decoding successful!');
else
    disp('Error in RLE implementation.');
end
```

RLE encoding and decoding successful!