Compression Ratio File that calculates the Compression Ratio, PSNR and MSE

```
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totalBitsOfEncoding = 0;
binaryValuesCounter = 0;
binaryCountCounter = 0;
for i = 1:length(encodedValues)
    for j = 1:length(encodedValues{i})
        tempBinary = dec2bin(encodedValues{i}(j));
        binary = length(tempBinary);
        binaryValuesCounter = binaryValuesCounter + binary;
    end
    for k = 1:length(encodedCount{i})
        temp2Binary = dec2bin(encodedCount{i}(k));
        binary2 = length(temp2Binary);
        binaryCountCounter = binaryCountCounter + binary2;
    end
end
fprintf('Total number of bits Values: %d', binaryValuesCounter);
fprintf('\nTotal number of bits Count: %d', binaryCountCounter);
totalBitsOfOriginal = heightOfImage * widthOfImage * 8;
fprintf('\nOriginal image number of bits: %d', totalBitsOfOriginal);
totalBitsOfEncoding = binaryValuesCounter+binaryCountCounter;
totalBitsOfOriginal/totalBitsOfEncoding
reconstructedImage = uint8(reconstructedImage);
ps= psnr(grayImage, reconstructedImage);
fprintf('\n The PSNR is: %d', ps);
mse = immse(grayImage, reconstructedImage);
fprintf('\n The MSE is: %d', mse);
```

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