BASIS IMAGE PROCESSING

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01.)



Original Image









Red Image

Green Image

Blue Image

Grayscale Image

(ii) Bilinear zooming (Only the part where bilinear interpolation is done is shown due to limited space =)

Both methods give a zoomed output which looks fine

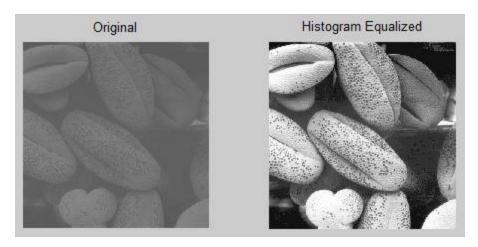
But when take a closer look at Gretel's face

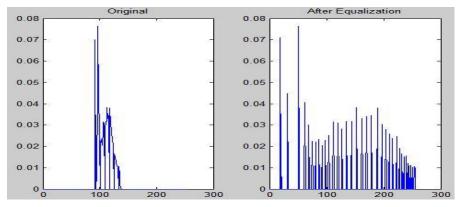
Bilinear zooming looks much better



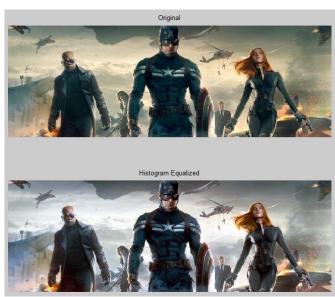


```
3.)
16
       %histogram equalization
17 -
        hisequ = zeros(L,c);
18 -
        imgequ = uint8(zeros(h,w,c));
      ☐ for i = 1 : h
19 -
20 -
            for j = 1 : w
21 -
                for k = 1 : c
22 -
                    imgequ(i,j,k) = uint8((L-1)*cumhisto(img(i,j,k)+1,k));
23 -
                    hisequ(imgequ(i,j,k)+1) = hisequ(imgequ(i,j,k)+1) + 1;
24 -
                end
25 -
            end
26 -
        end
```









4.)