Practical 7

Aim: Write a program, for Image reconstruction

a) Facial Images

b) Texture Images

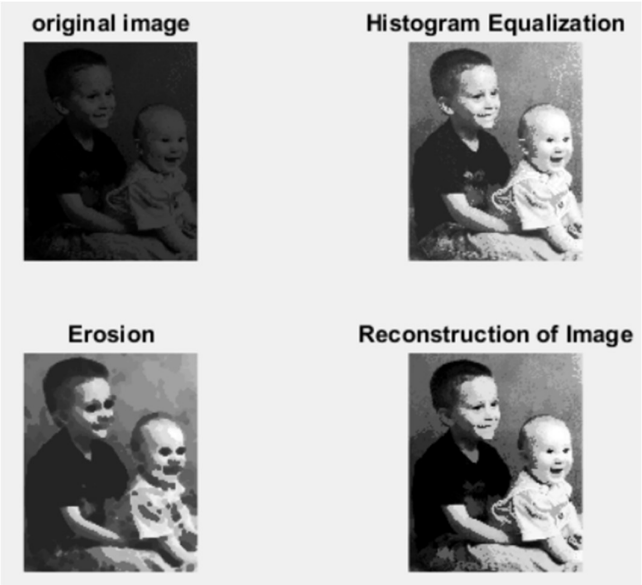
c) Facial Images

Code:

morphological_1.m | reconstruction_facial.m | reconstruction_texture.r

```
fprintf('92000103073-Raj Chhadia');
subplot(2, 2, 1);
    I = imread('kids.tif');
    imshow(I);
    title ('original image');
subplot(2, 2, 2);
    %mask = adapthisteq(I);
    mask=histeq(I);
    imshow(mask);
    title ('Histogram Equalization');
subplot(2, 2, 3);
    se = strel('disk',5);
    marker = imerode(mask,se);
    imshow(marker);
    title ('Erosion');
subplot(2, 2, 4);
    obr = imreconstruct(marker,mask);
    imshow(obr,[])
    title ('Reconstruction of Image');
```

Output:



d) Texture Images

Code:

morphological_1.m | reconstruction_facial.m | reconstruction_texture.m

```
1 -     fprintf('92000103073-Raj Chhadia');
2 -     subplot(2, 2, 1);
3 -         I = imread('text.png');
4 -         imshow(I);
5 -         title('Oiginal Image');
6 -     subplot(2, 2, 2);
7 -         marker = false(size(I));
8 -         marker(13,50) = true;
9 -         marker(13,94) = true;
10 -        marker(13,150) = true;
11 -        imshow(marker);
12 -        title('Marker Image');
13 -    subplot(2, 2, 3);
14 -        im = imreconstruct(marker,I);
15 -        imshow(im);
16 -        title('Restored Image');
```

Output: