```
% Inspect image values
img = imread('rajasthani_dancers.jpg');
%imshow(img);
disp(size(img));
% Crop to show only middle dancer
cropped = img(100:800, 400:850, :);
%imshow(cropped);
% Show Red, Blue, and Green channels separately
red = cropped(:,:,1);
blue = cropped(:,:,2);
green = cropped(:,:,3);
figure(1)
subplot(1,3,1)
imshow(red)
title('Red Channel')
subplot(1,3,2)
imshow(blue)
title('Red Channel')
subplot(1,3,3)
imshow(green)
title('Green Channel')
% overlay two dancers
dancer_1 = img(100:800, 400:850, :);
disp(size(dancer_1));
dancer_2 = img(100:800, 01:451, :);
disp(size(dancer_2));
figure(2)
two_dancers = dancer_1/2 + dancer_2/2;
subplot(1,3,1)
imshow(dancer 1)
title('Dancer 1')
subplot(1,3,2)
imshow(dancer_2)
title('Dancer 2')
subplot(1,3,3)
imshow(two dancers)
title('Averaged Dancers')
         853
                    1280
                                    3
   701
         451
                 3
   701
         451
                 3
```

Red Channel



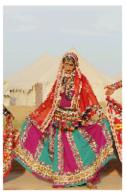
Red Channel



Green Channel



Dancer 1



Dancer 2



Averaged Dancers



