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FILE

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```
1 originalimage=imread('smile.jpg');
2 tx=80;
3 ty=70;
4 tranlation = [1 0 tx; 0 1 ty];
5 transalte = imtranslate(originalimage, [tx, ty]);
6 figure;
7 subplot(1,2,1);
8 imshow(originalimage);
9 title('org image');
10 subplot(1,2,2);
11 imshow(transalte);
12 title('Tran Image');
13
```

Figure 1 x Figure 2 x Figure 3 x Figure 4 x Figure 5 x

org image Tran Image

Command Window

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```
>> sheared
>> matall
>>
```

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```
1 image = imread('bit_com_2.tif');
2 scale = 80;
3 scl = imresize(image, scale);
4 figure;
5 subplot(1,2,1);
6 imshow(image);
7 title('Org image');
8 subplot(1,2,2);
9 imshow(scl);
10 title('scaled Image')
```

Figure 1 Figure 2 Figure 3 Figure 4 Figure 5

scaled Image

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```
1 image = imread('angry.jpg');
2 rot = imrotate(image, +45, 'crop');
3 figure;
4 subplot(1,2,1);
5 imshow(image);
6 title('Org image');
7 subplot(1,2,2);
8 imshow(rot);
9 title('Rotated Image');
```

Figure 1 Figure 2 Figure 3 Figure 4 Figure 5

Org image Rotated Image

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```
1 image = imread('columns.tif');
2 shear=0.5;
3 shearmat=[1 shear 0; 0 1 0; 0 0 1];
4 shearedImage = imwarp(image, affine2d(shearmat));
5 figure;
6 subplot(1,2,1);
7 imshow(image);
8 title('Org image');
9 subplot(1,2,2);
10 imshow(shearedImage);
11 title('Sheared Image')
```

Figure 1 Figure 2 Figure 3 Figure 4 Figure 5

Sheared Image

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>>
```

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```
1 image = imread('moon.tif');
2 theta = 45;
3 scaleFactor = 1.5;
4 tx=30;
5 ty=20;
6 rotate = imrotate(image, theta, 'bilinear','crop');
7 im = imresize(rotate, scaleFactor);
8 translated = imtranslate(im, [tx,ty]);
9 figure;
10 subplot(1,2,1);
11 imshow(image);
12 title('Org image');
13 subplot(1,2,2);
14 imshow(translated);
15 title('Sheared Image')
```

Figure 1 Figure 2 Figure 3 Figure 4 Figure 5

Org image Sheared Image

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```

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