

```
% |FT{f(x-x_0,y-y_0)}| <=> |F(u,v)|
```

```
B = zeros(256);  
B(103:152,116:140) = ones(50,25);  
F_B = abs(fftshift(fft2(B)));  
Z = log(1+F_B);  
mx = max(max(Z));  
c = 255/mx;  
Z_B = c*log(1+F_B);
```

```
C = zeros(256);  
C(133:182,146:170) = ones(50,25);  
F_C = abs(fftshift(fft2(C)));  
Z = log(1+F_C);  
mx = max(max(Z));  
c = 255/mx;  
Z_C = c*log(1+F_C);
```

```
subplot(2,2,1);  
imagesc( B )  
colormap( gray ( 256 ) )  
axis image  
subplot(2,2,2);  
imagesc( Z_B )  
colormap( gray ( 256 ) )  
axis image  
subplot(2,2,3);  
imagesc( C )  
colormap( gray ( 256 ) )  
axis image  
subplot(2,2,4);  
imagesc( Z_C )  
colormap( gray ( 256 ) )  
axis image
```

