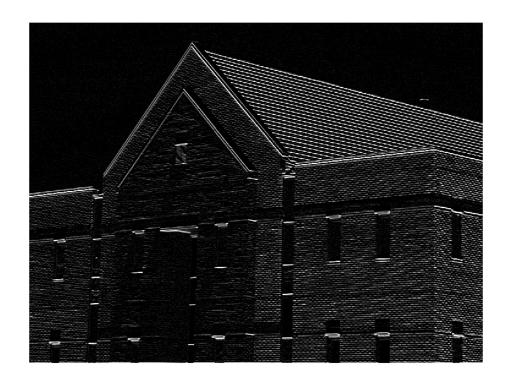
```
img = imread('building.tif');
figure;
imshow(img);
gx = [1 \ 2 \ 1; \ 0 \ 0 \ 0; \ -1 \ -2 \ -1];
gy = [-1 \ 0 \ 1; \ -2 \ 0 \ 2; \ -1 \ 0 \ 1];
xImg = imfilter(img, gx);
yImg = imfilter(img, gy);
magnitude = xImg + yImg;
figure;
imshow(xImg);
figure;
imshow(yImg);
figure;
imshow(magnitude);
Warning: Image is too big to fit on screen; displaying at 67%
Warning: Image is too big to fit on screen; displaying at 67%
Warning: Image is too big to fit on screen; displaying at 67%
Warning: Image is too big to fit on screen; displaying at 67%
```









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