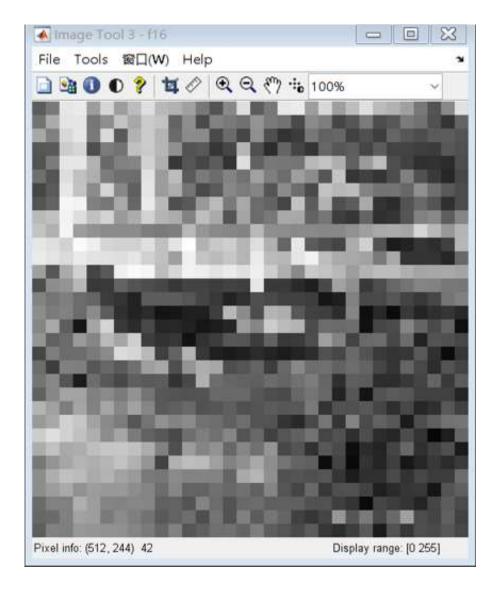
```
f=imread('D:\Work&Files\PSU-Course\EE455\Images\walkbridge.tif');
f=f(:,:,1);
%Get the first layer of the tif image
%Then downsample the 512*512 image, and perform the nearest neightbour
%interpolation
f1=f(1:2:end,1:2:end);
for x=1:512
    for y=1:512
        f2(x,y) = f1(ceil(x/2), ceil(y/2));
    end
end
f1=f(1:4:end,1:4:end);
for x=1:512
    for y=1:512
        f4(x,y) = f1(ceil(x/4), ceil(y/4));
    end
\quad \text{end} \quad
f1=f(1:16:end,1:16:end);
for x=1:512
    for y=1:512
        f16(x,y) = f1(ceil(x/16),ceil(y/16));
    end
end
imtool(f2);
imtool(f4);
imtool(f16);
imwrite(f2,'256','tif');
imwrite(f4,'128','tif');
imwrite(f16,'32','tif');
```







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