```matlab
I=imread("image.png");
grey_image=rgb2gray(I);
fig=figure('position',[50,50,800,800]);
for i=1:8
    bit_plane=bitget(grey_image,i);
    subplot(3,3,i);
    imshow(logical(bit_plane));
    title(sprintf('bit plane %d',i));
end
```
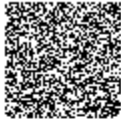
bit plane 1

bit plane 2

bit plane 3

bit plane 4

bit plane 5

bit plane 6

bit plane 7

bit plane 8

Published with MATLAB® R2024b