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Tugas 3 Pengolahan Citra Digital

# 1. Buat histogram citra 3 bit dibawah ini

1	3	4	5
1	2	1	1
3	3	4	7
2	1	1	7

Jawaban:

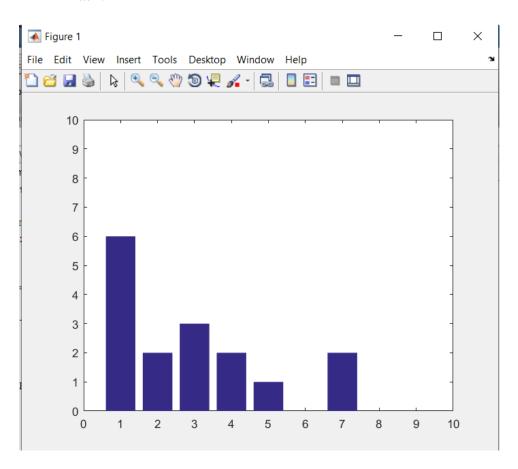
### ➤ Code Program:

```
Citra_3_bit = [1 3 4 5; 1 2 1 1; 3 3 4 7; 2 1 1 7];

% Histogram
[n m] = size(Citra_3_bit);
H = zeros(1,256);

for x = 1 : n
    for y = 1: m
        ii = Citra_3_bit(x,y);
        H(ii+1) = H(ii+1) +1;
    end
end
figure(1)
bar(0:255,H);
axis([0 10 0 10])
```

#### ➤ Hasil:

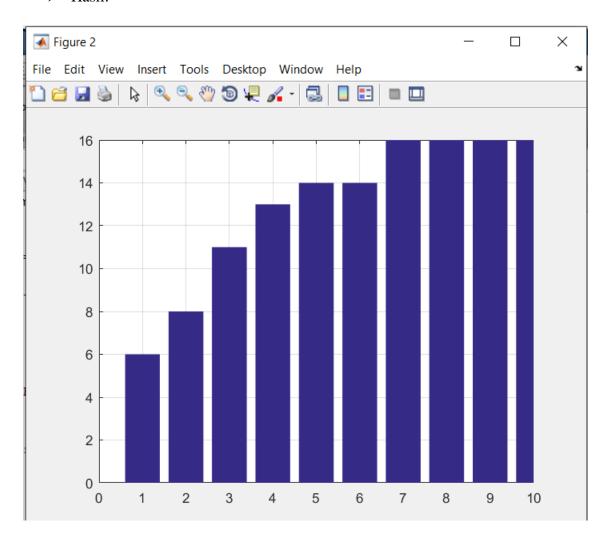


# 2. Cari distribusi komulatifnya (grafiknya ditampilkan)

### Jawaban:

# ➤ Code Program:

# ➤ Hasil:



3. Lakukan proses histogram equalisasi (tuliskan matriks citra hasil equalisasinya) Jawaban:

### ➤ Code Program:

```
% Histogram Equalisasi

for k = 1 : 256
    wb(k) = round (c(k)*256/(m*n));
end

figure(3)
bar(0:255,wb)
axis([0 10 0 255])
grid on

c = Citra_3_bit;
[n m] = size(c);

for x = 1 : n
    ii = c(x,y);
    c(x,y) = wb(ii+1);
end
end
```

### ➤ Hasil:

