

TUGAS 3 HISTOGRAM CITRA

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PENDIDIKAN TEKNIK INFORMATIKA DAN KOMPUTER TEKNIK INFORMATIKA DAN KOMPUTER UNIVERSITAS NEGERI MAKASSAR 2020/2021

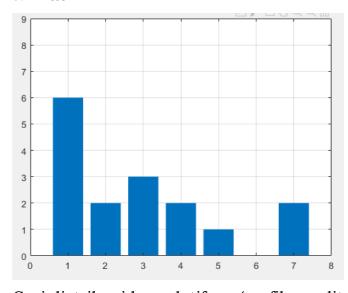
1. Buat histogram citra 3 bit dibawah ini

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

Jawab:

a. Code Program

b. Hasil

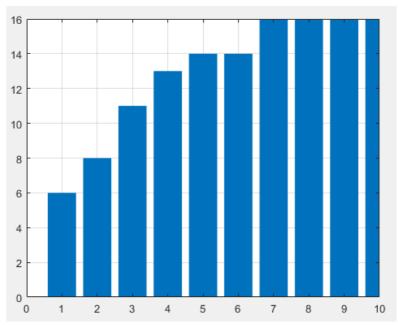


2. Cari distribusi komulatifnya (grafiknya ditampilkan)

Jawab:

a. Code Program

b. Hasil



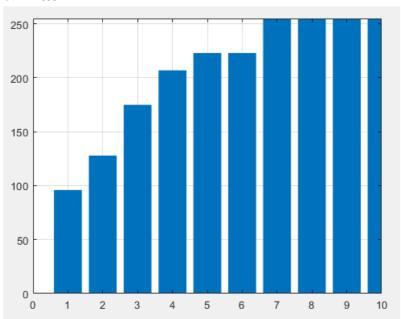
3. Lakukan proses histogram equalisasi (tuliskan matriks citra hasil equalisasinya)

Jawab:

a. Code Program

```
26
        %Histogram Equalitation
27 - \bigcirc \text{for } k = 1 : 256
28 -
            wb(k) = round(c(k)*255/(m*n));
29 -
30 -
      figure(3)
31 -
      bar(0:255,wb)
32 -
      axis ([0 10 0 255])
33 -
       grid on
34
35 -
       c = Citra_3_bit;
36 -
       [n m] = size(c);
37
38 - for x = 1 : n
39 - for y = 1 : m
40 -
                ii = c(x,y);
41 -
                c(x,y) = wb(ii+1);
42 -
             end
      end
43 -
```

b. Hasil



c. Matriks Citra Hasil Equalisasi

96	175	207	223
96	128	96	96
17 5	175	207	255
12 8	96	96	255

```
>> c = Citra_3_bit;
[n m] = size(c);
for x = 1 : n
    for y = 1 : m
        ii = c(x,y);
        c(x,y) = wb(ii+1);
    end
end
>> c
c =
         175
               207
                      223
    96
                96
                       96
    96
         128
         175
               207
                      255
   175
   128
          96
               96
                      255
```