Nama : Hardiansyah Ramadhan

NIM : 200209502082 Kelas : PTIK C 20

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:

Sintaks:

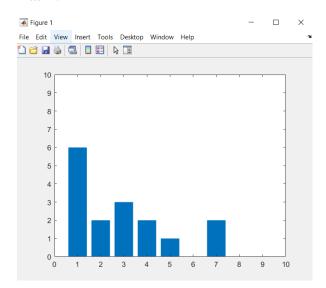
```
Editor - D:\KULIAH\PENGOLAHAN CITRA DIGITAL\Tugas3_HardiansyahR_200209502082.n
Tugas3_HardiansyahR_200209502082.m × + 1 - Citra_3_bit = [1 3 4 5; 1 2 1
        Citra_3_bit = [1 3 4 5; 1 2 1 1; 3 3 4 7; 2 1 1 7];
2
3
         % Histogram
4 -
        [n m] = size(Citra_3_bit);
5 - H = zeros(1,256);

6 - for x = 1 : n

7 - for y = 1: m

8 - ii = Citra_3_bit(x,y);
9 –
                H(ii+1) = H(ii+1) +1;
10 -
11 - end
              end
12 -
13 -
        figure(1)
       grid on
bar(0:255,H);
14 -
        axis([0 10 0 10])
```

Hasil:



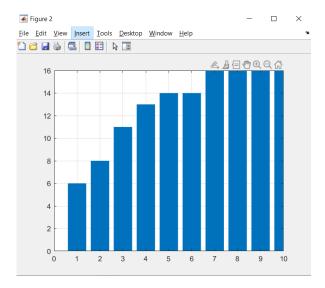
2. Cari distribusi komulatifnya (grafiknya ditampilkan)!

Jawaban:

Sintaks:

```
☑ Editor - D:\KULIAH\PENGOLAHAN CITRA DIGITAL\Tugas3_HardiansyahR_200209502082.m
                                                                                        Tugas3_HardiansyahR_200209502082.m 💥 🛨
17
        % Distribusi Komulatif
                                                                                         ٨
18 -
     \Box for w = 1: 256
19 -
            c(w) = sum(H(1:w));
20 -
      ∟end
21 -
        figure(2)
22 -
      bar(0:255,c)
        grid on
23 -
24 -
        axis([0 10 0 m*n])
25
```

Hasil:



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

Jawaban:

Sintaks:

```
Editor - D:\KULIAH\PENGOLAHAN CITRA DIGITAL\Tugas3_HardiansyahR_200209502082.m
Tugas3_HardiansyahR_200209502082.m × +
26 % Histogram Equalisasi
27 - \bigcirc \text{for } k = 1 : 256
28 -
          wb(k) = round(c(k)*256/(m*n));
      end
29 -
30 -
      figure(3)
31 -
      bar(0:255,wb)
      axis([0 10 0 255])
32 -
33 -
       grid on
34
35 -
      c = Citra_3_bit;
36 -
      [n m] = size(c);
37
38 - \Box \text{ for } x = 1 : n
39 - for y = 1 : m
40 -
             ii = c(x,y);
41 -
               c(x,y) = wb(ii+1);
42 -
           end
43 -
44
```

Hasil:

