Kelas = 3 A Tugas 1 1) Dx (= 213.80.155 0= (0,2989×213) + (0,5870×80)+ (0,1190×155) = 63,4857 + 46,96 + 17,67 > 128,12 = 110=1 Px 2= 211,200 1155 0= (0,2989 x211) + (0,5870 x200) +(0,1140 x155 = 63, 3979 + 117,40 + 17.67 = 192.19 > Pas = 213, 222, 12 0=(6,2989 ×213) + (0,5870 ×222) + (0,1140 ×12) = 63,4857 + 130,314 + 1,368 = 195.51 (Px 9 = 24,60,122 0 = (0,2989 x24)+(0,5876 x60)+(0,1140 x 122) = 7,1736 + 35.22 + 13.908 = 56.30 Dx 5 = 153 , 155 , 154 0 = (0,2989 × 153) + (0,5870 × 155) + (0,1190 × 154) = 45.2217 +90 .985 + 17.556 = 154.22 PX6 2 15 ,25,155 0 = (6,2989 ×15) + (0,5870 +25) + (6,1140 ×155) = 4.4835 + 19.675 + 17.69 - 40.81 $0 \times 7 = 212, 9, 19$ 0 = (0,2968×212) + (0,5810 ×9) + (0,1140 × 19) = 63.3668 + 5,283 + 2.166 = 69.96 (VISION)

MPM = 2213020160

8×8 = 8,8,100 0 = (6,2989 ×8) + (0,5870 ×8) + (0,1140×100) = 2,3912 + 4.696 + 11.92 = 19.10 Px 9 = 143,100,123 0 = (0,2989 × 143) + (6,5870 × 100) + (0,1140 × 123) = 42.2327 + 58.7 +14.022 = 115,98 Tugas 2 Hitung Konvæksi eitra biner dengam T (threshold) yang sudah dilentukan Diket! T=110 (213,80,155 24, 60, 122 212, 9,18 153, 155, 154 8, 8, 100 211,200,155 213, 222, 12 25, 155 15 143,100,123 iawab ambil ni lai Intensitas dengan rumus: I = (0, 1989 xx)+(0, \$270 x6)+(0, 1190 xB) Jika [> 110 piksel maka diberi nilai 1 (putih jilla I & 110 Piksel maka diberinilai 6 Chitam) 1) (213,80,155) R, G, B Px I = (0, 2989 x 213) + (0,5870 × 80) + (0, 1190 x 155) = 63,6657 + 96.96 + 17.67 = 128.30 2110=1 Dx 1 = 29,60,122 = (0,2989 x 24) + (0,5870 + 60) + (0,1140 x 122) = 7,1736 + 35,22 + 13,908 = 50,30 \(\text{110} = 011

0x 3 = 212,9,19	
= (0,1989 ×212) + (6,5870 ×9)	+C0,1140 x19)
= 63,3668 +5,283 +2,166	
> 70,82 \ = 0	
2) Px1 = 211, 200,155)	
= (0,2989 × 211)+(0,5870×200)+(0.1100×155)
= 63, 1579 + 117, 4 + 17,67	7 (20)(140 × (53)
= 198,23 7 110=1	
- 1381112 118	
Px2 = 153, 155, 154	
= (0,2989 x 153) + (0,5870 x 155))+(0,1190×159)
= 45.2217 + 90,985 + 17.556	
> 153.76 7 110=1	
Px3= 0,8,100	
= (0,2989 ×8) + (0,5870×8) + 6,	1140 ×100)
= 2,3912 +4,696 +11,4	
= 18,49 = 110=0	
3) 0x1 = 213, 222,12	
= (0,2989 × 213) +(0,5870 ×222)	+ (0,1190 ×P)
= 63,66 57 + 130,319 + 1,136	
= 195,35 Z 110=1	
Px 2 = 15, 25, 155	
= 4,4835 +14,675 + 17,67	
= 36,83 \(\frac{107}{107}\)	
- 36107 = HO - 0	
Px3 = 193,100,123	
= 92,2237 +58,7 +19,022	
= 114,94 7110=1	hosil akhir dolam konveksi biner
	(0 0) -> basis pertama
	(1 0 - Redua
) (O ()→ ketiga

```
Soal 3 Index sitial Pixel berdasar color pallete
    Color pallete
              warna 0 : hitam (RGB = 0,0.0)
              warna 1 : merah (RGB = 255,0,0)
              warna 2 : hijau (RGB = 0,255.0)
              Warna 3: Biru LEGB = 0,0,255)
        Rumus jarax Euclidean jarax = \( (P1-P2)^2 + (61-62)^2 + (B1-B2)^2
 1. 17ksa (1,1) = 213,80,155
 -hitam = \sqrt{(213-0)^2 + (80-0)^2 + (155-0)^2} = \sqrt{45369 + 6400 + 24045} = \sqrt{75794} = 275,24
 - merah = \( (213-255)^2 + (80-0)^2 + (155-0)^2 = \( \sqrt{1769} + 6400 + 24025 = \sqrt{32189} = 179,42
 - hisau = \( (213-0)^2 + (80-255)^2 + (155-0)^2 = \( \sqrt{45369} + \sqrt{30625} + \sqrt{24625} = \sqrt{100019} > 316,19
 - Biru = V(213-0)2+(80-0)2+(155-255)2 = VA5369 + 6400 + 10000 = V61769 > 248,54
 2. Piksel (1,2) = 24,60,122
 - hitam = 1 (24-0)2 + (60+0)2 + (122+0)2 = (576+3600 + 19884 = 13060 = 138,02
 - merah = \sqrt{(24+255)^2+(60+0)^2+(122+0)^2} > \sqrt{53361+3600+14889} > \sqrt{71895} = 268,03
 - hisau = (24-6)^2 + (60+133)^2 + (122+0)^2 = \sqrt{576+38025+19884} = \sqrt{53485} = 231,30
 - biru = (29-0)2+(60+6)2+(122+255)2= (576+3600+17689 > (21865 > 197.85
3, Piksel (1,3) = 212,9,19
- hitam = \sqrt{(212-0)^2 + (9-0)^2 + (19-0)^2} = \sqrt{94944} + 01 + 361 = \sqrt{45386} = 213,14
- merah = \sqrt{(212-255)^2+(9-0)^2+(9-0)^2} = \sqrt{1899+81+361} > \sqrt{2291} > \sqrt{2291} > \sqrt{2}
~ hijau = \sqrt{(212-0)^2+(9-255)^2+(9-0)^2} = \sqrt{49944+60516+361} = \sqrt{105821} = 325,32
 - biru = \sqrt{(212-0)^2 + (9-0)^2 + (19-255)^2} > \sqrt{49944} + 81 + 55696 > \sqrt{100721} = 317,47
9. Pixx1 (2,1) = 211,200,155
 - hitam = \(\int(211-0)^2 + (200-0)^2 + (165-0)^2 = \(\int(452) + 40000 + 24025 = \int(108596 = 329,48)
- merah = \sqrt{(211-255)^2+(200-0)^2+(155-0)^2} = \sqrt{(1336+400000+24025)} = \sqrt{65961} = 256,42
 - hisau = \(\(\frac{211-0)^2}{(200-255)^2} + (155-0)^2 = \(\sqrt{44521 + 3025} + 24025 > \sqrt{71571} > 267 162
 - biru = \((211-6)^2 + (200-0)^2 + (155-255)^2 = \(\sqrt{44521} + \alpha0000 + 10000 > \sqrt{34521} = 302,44
5, Piksc1 (2,2) = (153, $155, 154)
 - hitom = (153-0) + (155-0) + (159-0)2 = (2309 + 24025 + 23716 = \( 71150 = 266,88
 - meran = \(\left(153-255)^4 + (155-0)^2 + (154-0)^2 = \(\left(10404 + 29075 + 23716 = \sqrt{50145} = 241,14
- hijau = \sqrt{(153-0)^2+(155-255)^2+(154-0)} = \sqrt{23409}+10000+1376=\sqrt{57125}=138,99
 - biru = (153-6)2+ (155-6)2+(154-255)2= 123409+24025+10201 = 157635 = 240,07
```

```
6. Dixsel (2,3) = 8,8,100
   - hitam = \( (8-0)^2 + (8-0)^2 + (100-0)^2 = \( \sqrt{69 + 69 + 10000} = \sqrt{10128} = 100.69
  - merah = \sqrt{(8-255)^2+(8-0)^2+(100-0)^2} = \sqrt{(1009+64+10000)} = \sqrt{71073} = 266,61
  - hijau = \((8-0)^2 + (8-255)^2 + (100-0)^2 = \(\sqrt{69} + 6009 + 10000 = \sqrt{71073} = 7073 = 266,61
  biru = \( (8-0)^2 + (8-0)^2 + (100-155)^2 = \( (69 + 69 + 24025 = \sqrt{24153} = 155.47 \)
7. Piksel (3,1) = 213, 222,12
  - hitam = \sqrt{(213-0)^2 + (222-6)^2} + (12-0)^2 = \sqrt{46369499284 + 144} = \sqrt{34797} = 307,43
  - merah = \(\int(213-255)^2 + (222-0)^2 + (12-0)^2 = \(\int(1769 + 49284 + 194) = \sqrt{51252} > 226,98
  - higau = \((213-20)^2 + (212-255)0+ (12-0)2 = \((45369+1009+199) = \) 46602 = 215,96
   - biru = \((213-0)^2 + (222-0)^2 + (12-255)^2 = \((4=369+49282+59049 = \sqrt{153701 = 392.03}\)
8, Piksu (3,2) = 15,25,155
   - hitam = \sqrt{(15-0)^2+(25-0)^2+(155-0)^2}=\sqrt{275+625+24025}=\sqrt{24875}=157.76
   - merch = V(15-255)+ (25-0)2 + (155-0)2 = (57600+625+24025 = Je250 > 286,87
   - hisau = \( (5-0)^2 + (25-255)^2 + (55-0)' = \( \frac{225}{225} + 52900 + 24025 = \) \( \tau \) = 277.75
   - biru = \(\int(15-0)^2 + (25-0)^2 + (155-155)^2 > \(\int 215 + 625 + 10000 = \int 10850 > 104.15)
3. Pikscl (3,3) = 193,100,123
    - hitam: \(\langle (193-0)^2 + (100-0)^2 + (123-0)^2 = \sqrt{20949} + (0000 + 15129 = \sqrt{95578} = 113,59
    -merah > \( (193-255)^2 (100-6)^2 + (123-0)^2 = \( \tag{12544} + (0000 + 15129 = \sqrt{3Z73} > 159.12)
     -hijau = \(\langle \langle \la
     - biru > \((143-0)^2 + (100 - 0)^2 + (123-255)^2 = \(\sqrt{209993} + 10000 + 17424 > \sqrt{97873} - 28.78
               hasil akhir
          - piksel
                                                                                                                   (3,1)
                                                                 (2,1) = merah
               (1,1) = merah
                                                                                                                  (3,2)
                                                               (2,2) = hijau
              (1,2) = hitam
                                                                                                                  (3,3)
                                                               12,3) = hitam
              (1,3) = mirah
                            hasil Pixel citra terrudus
                                                                                             255,0,0
                                                               0,0,0
                             255,00
                                                               0,255,6
                                                                                              6,0,0
                            255,0,0
                                                                                              255,0,0
                              0,255,0
                                                               0,0,255
```