

PENGOLAHAN CITRA

NAMA : ADINDA MEYLIA SALSABILA

NPM : 2213020100

KELAS : 3A

* SOAL 1

213, 80, 155	24, 60, 122	212, 9, 19
211, 200, 155	153, 155, 154	8, 8, 100
213, 222, 12	15, 25, 155	143, 100, 123
1	2	3

Hitung konversi grayscale setiap pixel

* Grayscale : $0.299 \times R + 0.587 \times G + 0.114 \times B$

→ JAWAB :

$$1. * F(0.0) = 0.299 \times 213 + 0.587 \times 80 + 0.114 \times 155 \\ = 128.32$$

$$* F(0.1) = 0.299 \times 211 + 0.587 \times 200 + 0.114 \times 155 \\ = 190.159$$

$$* F(0.2) = 0.299 \times 213 + 0.587 \times 222 + 0.114 \times 12 \\ = 195.37$$

$$2. * F(1.0) = 0.299 \times 24 + 0.587 \times 60 + 0.114 \times 122 \\ = 56.30$$

$$* F(1.1) = 0.299 \times 153 + 0.587 \times 155 + 0.114 \times 154 \\ = 66.69$$

$$\begin{aligned} * F(1.2) &= 0.299 \times 15 + 0.587 \times 25 + 0.114 \times 155 \\ &= 36.83 \end{aligned}$$

$$\begin{aligned} 3. * F(2.0) &= 0.299 \times 212 + 0.587 \times 9 + 0.114 \times 19 \\ &= 70.84 \end{aligned}$$

$$\begin{aligned} * F(2.1) &= 0.299 \times 8 + 0.587 \times 8 + 0.114 \times 100 \\ &= 17.92 \end{aligned}$$

$$\begin{aligned} * F(2.2) &= 0.299 \times 143 + 0.587 \times 100 + 0.114 \times 123 \\ &= 115.48 \end{aligned}$$