

Modul. Jurni Prayogo

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3-A.

* Soal 1. Hitung konversi grayscale setiap pixel.

$$1. P_{x1} = 213, 80, 155$$

$$\begin{aligned} G &= (0,2989 \times 213) + (0,5870 \times 80) + (0,1140 \times 155) \\ &= 63,4859 + 46,96 + 17,67 \\ &= 128,12 \end{aligned}$$

$$P_{x2} = 211, 200, 155$$

$$\begin{aligned} G &= (0,2989 \times 211) + (0,5870 \times 200) + (0,1140 \times 155) \\ &= 63,3979 + 117,40 + 17,67 \\ &= 192,19 \end{aligned}$$

$$P_{x3} = 213, 222, 12$$

$$\begin{aligned} G &= (0,2989 \times 213) + (0,5870 \times 222) + (0,1140 \times 12) \\ &= 63,4857 + 130,314 + 1,368 \\ &= 195,51 \end{aligned}$$

$$P_{x4} = 24, 60, 122$$

$$\begin{aligned} G &= (0,2989 \times 24) + (0,5870 \times 60) + (0,1140 \times 122) \\ &= 7,1736 + 35,22 + 13,908 \\ &= 56,30 \end{aligned}$$

$$P_{x5} = 153, 135, 154$$

$$\begin{aligned} G &= (0,2989 \times 153) + (0,5870 \times 135) + (0,1140 \times 154) \\ &= 45,2217 + 95,985 + 17,556 \\ &= 154,22 \end{aligned}$$

$$P_{x6} = 15, 25, 155$$

$$\begin{aligned} G &= (0,2989 \times 15) + (0,5870 \times 25) + (0,1140 \times 155) \\ &= 4,4835 + 14,675 + 17,67 \\ &= 40,81 \end{aligned}$$

$$P_{x7} = 212, 9, 19$$

$$\begin{aligned} G &= (0,2989 \times 212) + (0,5870 \times 9) + (0,1140 \times 19) \\ &= 63,3668 + 5,283 + 2,166 \\ &= 69,46 \end{aligned}$$

$$P \times B = 8,8,100$$

$$S = (0.2989 \times 8) + (0.5870 \times 8) + (0.1140 \times 100)$$

$$= 2.3912 + 4.696 + 11.4.$$

$$= 19.10.$$

$$P \times G = 143, 100, 123.$$

$$S = (0.2989 \times 143) + (0.5870 \times 100) + (0.1140 \times 123).$$

$$= 42.2327 + 58.7 + 14.022$$

$$= 115.98.$$