

PRAKTIKUM #1

9 MARET 2026

A. Command window

1. Create vectors:
 - a. $a = [1\ 2\ 3\ 4\ 5\ 6\ 9\ 8\ 7]$
 - b. $t = 0:2:20$
 - c. $b = a + 2$
 - d. $c = a + b$
 - e.
2. Create mathematical functions
 - a. $\sin(\pi/4)$
 - b. $y = \sin(\pi/6)$
 - c. $y = \text{asin}(0.5)$
3. Equations If : $t=25$, $x=43$, $y=15.25$, $z=8.2$. Calculate equations bellow
 - a. $M = 4x^2 + 3y + 10$
 - b. $N = e^{2x} + x$
 - c. $O = \sqrt{\frac{1}{(x+y)} + \frac{1}{(t+z)}}$
 - d. $P = 4e^{-x/2} \sin(\pi x)$
4. Read and Display an Image

B. Basic Image Import, Processing, and Export (M file)

```
I = imread('pout.tif');
imshow(I);
figure;
imhist(I);
I2 = histeq(I);
figure;
imshow(I2);
figure
imhist(I2)
imwrite (I2, 'pout2.png');
imfinfo('pout2.png')
```