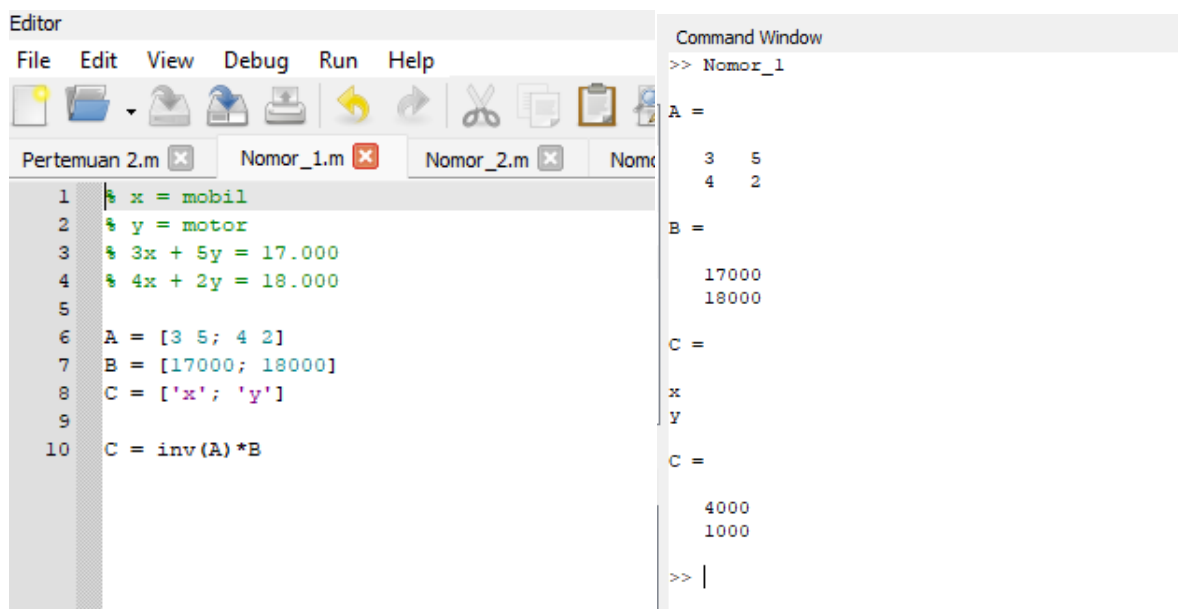


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Tugas Praktikum Aljabar Linear Pertemuan 2

1. Seorang tukang parkir mendapat uang sebesar Rp17.000,00 dari 3 buah mobil dan 5 buah motor, sedangkan dari 4 buah mobil dan 2 buah motor ia mendapat uang Rp18.000,00. Buatlah model matriksnya !



The screenshot shows the MATLAB environment. The Editor window displays the following code:

```
1 x = mobil
2 y = motor
3 % 3x + 5y = 17.000
4 % 4x + 2y = 18.000
5
6 A = [3 5; 4 2]
7 B = [17000; 18000]
8 C = ['x'; 'y']
9
10 C = inv(A)*B
```

The Command Window shows the output of the code:

```
>> Nomor_1
A =
     3     5
     4     2
B =
    17000
    18000
C =
     x
     y
C =
     4000
     1000
>> |
```

2. Diketahui harga 5 kg apel dan 3 kg jeruk Rp79.000,00 sedangkan harga 3 kg apel dan 2 kg jeruk Rp49.000,00. Buatlah model matriksnya !

The image shows a MATLAB Editor window with a script named 'Nomor_2.m' and a Command Window. The script defines variables for apples (a) and oranges (j) and solves a system of linear equations using matrix inversion.

```

1 % a = apel
2 % j = jeruk
3 % 5a + 3j = 79.000
4 % 3a + 2j = 49.000
5
6 X = [5 3; 3 2]
7 Y = [79000; 49000]
8 Z = ['a'; 'j']
9
10 Z = inv(X)*Y

```

The Command Window shows the results of the calculations:

```

>> Nomor_2
X =
     5     3
     3     2
Y =
    79000
    49000
Z =
     a
     j
Z =
    11000
     8000
>>

```

3. Harga 2 baju dan 1 celana Rp230.000,00. Sedangkan harga 3 baju dan 2 celana Rp380.000,00. Buatlah model matriksnya !

The image shows a MATLAB Editor window with a script named 'Nomor_3.m' and a Command Window. The script defines variables for shirts (b) and pants (c) and solves a system of linear equations using matrix inversion.

```

1 % b = baju
2 % c = celana
3 % 2b + c = 230.000
4 % 3b + 2c = 380.000
5
6 P = [2 1; 3 2]
7 Q = [230000; 380000]
8 R = ['b'; 'c']
9
10 R = inv(P)*Q

```

The Command Window shows the results of the calculations:

```

>> Nomor_3
P =
     2     1
     3     2
Q =
    230000
    380000
R =
     b
     c
R =
     80000
    70000
>>

```