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Soal diskusi

Jawaban:

1. Membuat matriks M dan operasi matriks:

a. Perkalian elemen demi elemen

```
# Membuat Matriks M

M ← matrix(c(7,6,5,4,0,9,7,5,0,0,1,2,0,0,0,3), nrow = 4, byrow = TRUE)

# print("Matriks M:")

# print(N)

# print(N)

M-elementwise ← M * M

print("Perkalian Elemen Demi Elemen:")

# print(M-elementwise)

# Membuat Matriks M

| 1] (p) pr-projects Rscript diskusi/4/pl.r

| 1] "Perkalian Elemen Demi Elemen:"

| 20:17:39
```

b. Perkalian matriks M dengan M secara aljabar

c. Invers dari matriks M

d. Transpos dari Matriks M

e. $M^T \times M$

```
~/D/p/r-projects Rscript diskusi/4/p1.r
                                                                                        [1] "Transpos Matriks M:"
M \leftarrow matrix(c(7,6,5,4,0,9,7,5,0,0,1,2,0,0,0,3), nrow = 4, byrow = TRUE)
                                                                                             [,1] [,2] [,3] [,4]
                                                                                        [1,]
                                                                                        [2,]
\texttt{M\_transpose} \leftarrow \texttt{t(M)}
                                                                                        [3,]
print("Transpos Matriks M:")
                                                                                        [4,]
print(M_transpose)
                                                                                        [1] "M^T x M:"
                                                                                             [,1] [,2] [,3] [,4]
                                                                                        [1,] 49 42 35 28
                                                                                        [2,] 42 117 93 69
{\tt M\_transpose\_multiply} \leftarrow {\tt M\_transpose} ~{\tt \%*\%} ~{\tt M}
                                                                                        [3,] 35 93 75 57
print("M^T x M:")
                                                                                        [4,] 28 69 57
                                                                                                               54
print(M_transpose_multiply)

≫ ~/D/p/r-projects
```

Jawaban Soal 2:

Jawaban soal 3:

```
A. Anak Matriks M yang diberihan

A. Anak Matriks M (M1):

[1] [,2]

[1], 7 6

[2], 0 9

B. Amatrik(c(1, 2, 3, 4, 1, 2, 3, 4), nrow = 2, byrow = TRUE)

[1], 7 6

[2], 0 9

B. A. Mengambit anda matriks M (M2) - mentith baris 1 dan 2, holow 1 dan 2

[1], 1 1 2

[2], 1 0 3

[2], 1 0 3

[3], 1 1 2

[4], 1 1 2

[7], 1 2 3

[8], 1 3 3 4

[9], 1 3 4

[9], 1 3 5

[1], 1 3 5

[1], 1 3 5

[1], 1 3 5

[1], 1 3 5

[2], 1 0 3

[3], 1 1 2

[4], 1 1 2

[5], 1 1 2

[6], 1 1 2

[7], 1 2 3

[8], 1 3 3

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