Practical 2 Matrix Operations

Create a Matrix using R and Perform the operations addition, inverse, transpose and multiplication operations.

Write a program in R to create two matrices A and B of order 3 X 3 and perform the following operations:

- a) Add matrices A and B
- b) Multiply matrices A and B
- c) Find the inverse of matrix A
- d) Find the inverse of matrix B
- e) Find the transpose of matrix B

```
# Create two 3x3 matrices.
A = matrix(c(2, 3, 4, 4, 3, 1, 1, 2, 4), nrow = 3, ncol = 3, byrow = TRUE)
A
B = matrix(c(8, 4, 3, 2, 2, 1, 1, 2, 1), nrow = 3, ncol= 3, byrow= TRUE)
В
# Add matrices A and B.
A+B
# Multiply matrices A and B.
A*B
# Find the inverse of matrix A.
solve(A)
# Find the inverse of matrix B.
solve(B)
# Find the transpose of matrix A.
t(A)
# Find the transpose of matrix B.
t(B)
```