**Practical 7: Perform SVD analysis on network**

Code:

# Load the igraph library

library(igraph)

# Create a 9x4 matrix with specific values

a <- matrix(c(1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 0, 0, 0, 0,

              0, 0, 0, 0, 1, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1), 9, 4)

# Print the matrix to the console

print(a)

# Perform singular value decomposition on the matrix

svd(a)

**OUTPUT**