Practical 6: Write a program to exhibit structural equivalence, automorphic equivalence, and regular equivalence from a network.

Codes:

```
# Install and load necessary packages
install.packages("sna")
library(sna)
library(igraph)

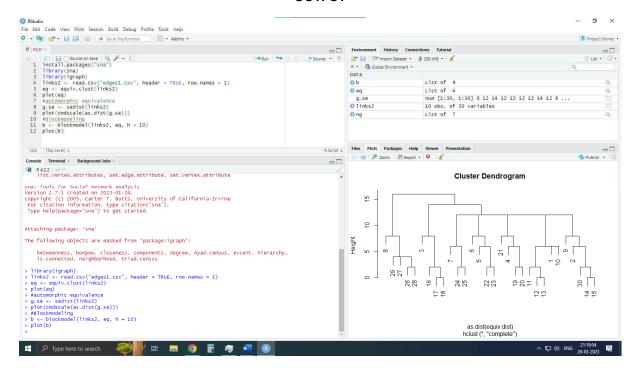
# Read data from file
links2 <- read.csv("edges1.csv", header = TRUE, row.names = 1)

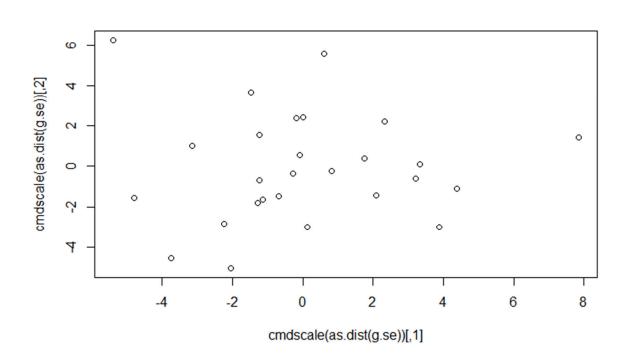
# Equivalence clustering
eq <- equiv.clust(links2)
plot(eq)

# Automorphic equivalence
g.se <- sedist(links2)
plot(cmdscale(as.dist(g.se)))

# Blockmodeling
b <- blockmodel(links2, eq, h = 10)
plot(b)</pre>
```

OUTPUT





Relation - 1

