

## Practical 5: Write a program to distinguish between a network as a matrix, a network as an edge list, and a network as a sociogram (or “network graph”) using 3 distinct networks representatives of each.

Code:

```
# Load igraph package
library(igraph)

# Define network using graph formula notation
ng <- graph.formula(Andy ++ Garth,
                   Garth -+ Bill,
                   Bill -+ Elena,
                   Elena ++ Frank,
                   Carol -+ Andy,
                   Carol -+ Elena,
                   Carol ++ Dan,
                   Carol ++ Bill,
                   Dan ++ Andy,
                   Dan ++ Bill)

# Plot the network
plot(ng)

# Display adjacency matrix of the network
get.adjacency(ng)

# Display edges of the network
E(ng)
```

# OUTPUT

