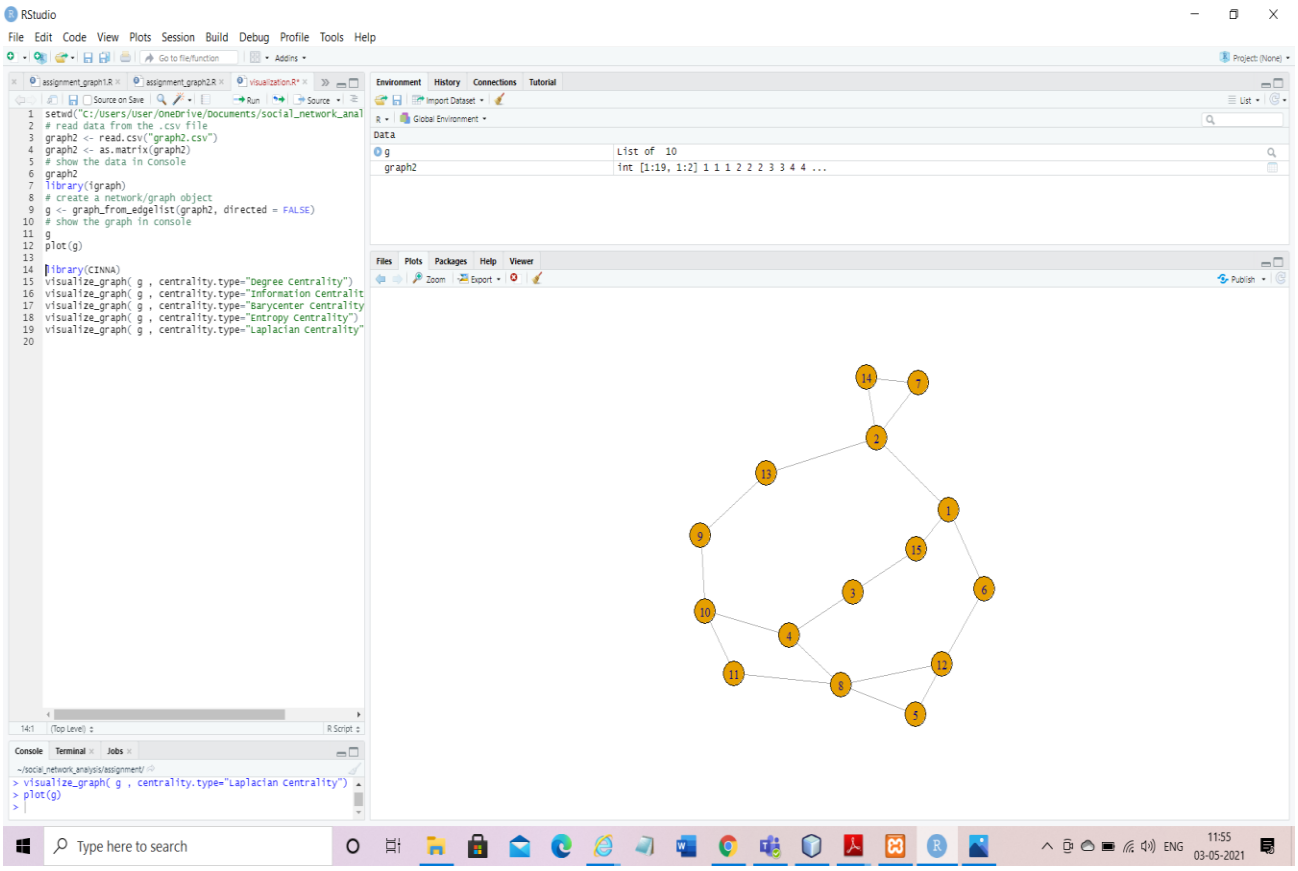
Centrality Visualization

Deepthi V

Graph:



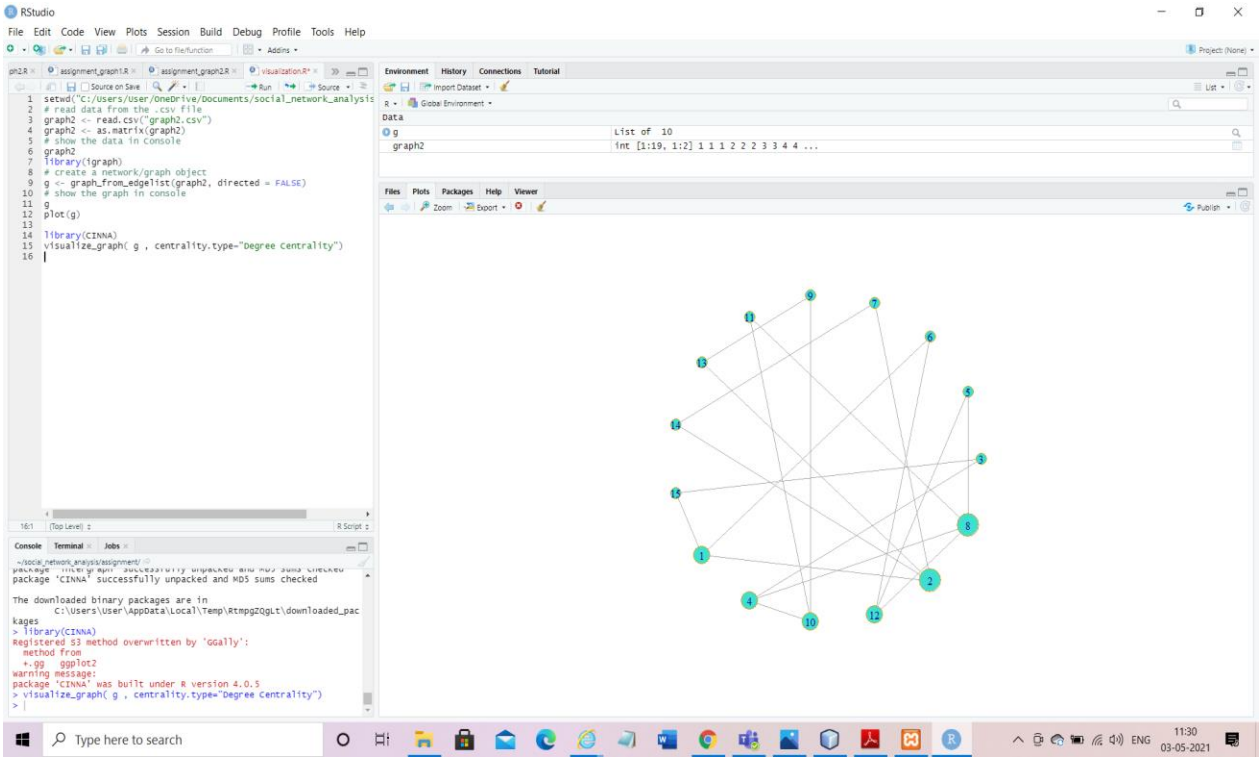
Code:

```
setwd("C:/Users/User/OneDrive/Documents/social_network_analysis/assignment")

# read data from the .csv file

graph2 <- read.csv("graph2.csv")
```

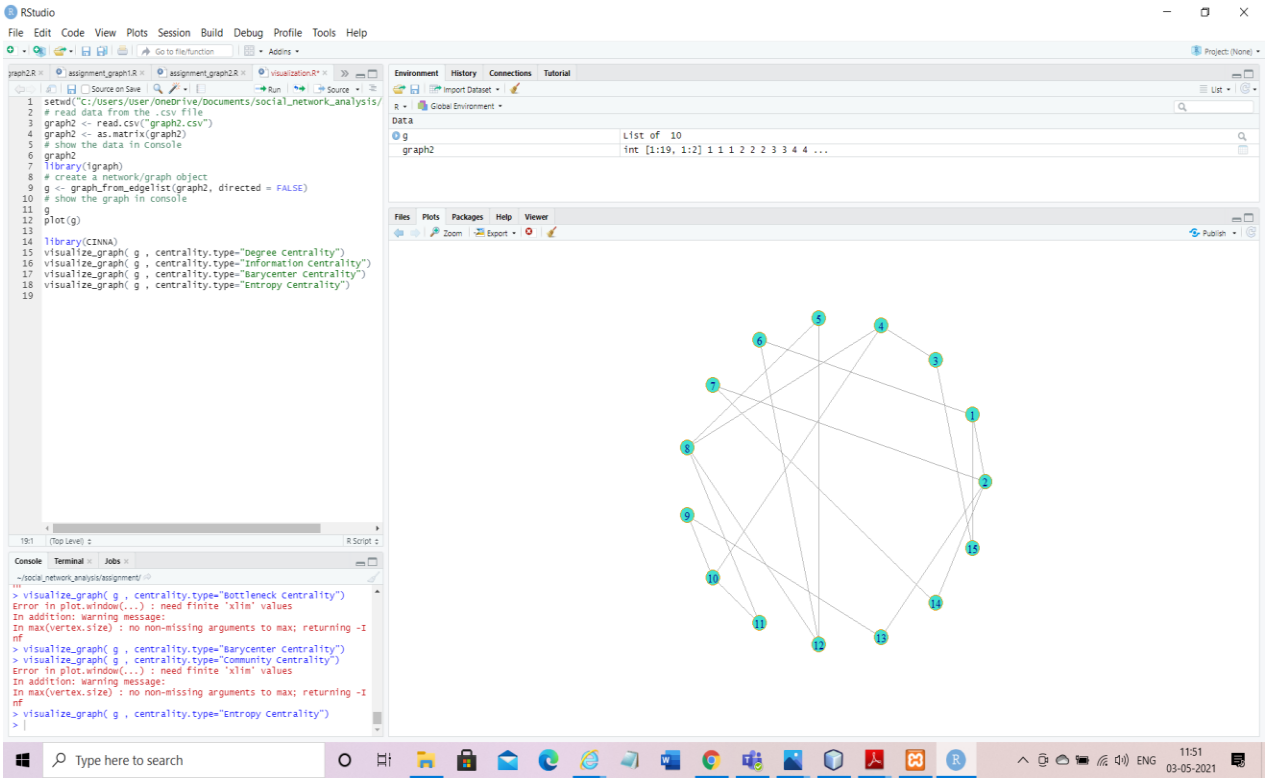
```
graph2 <- as.matrix(graph2)

# show the data in Console

graph2

library(igraph)

# create a network/graph object

g <- graph_from_edgelist(graph2, directed = FALSE)

# show the graph in console

g

plot(g)

library(CINNA)

visualize_graph( g , centrality.type="Degree Centrality")

visualize_graph( g , centrality.type="Information Centrality")

visualize_graph( g , centrality.type="Barycenter Centrality")

visualize_graph( g , centrality.type="Entropy Centrality")

visualize_graph( g , centrality.type="Laplacian Centrality")
```

Output:

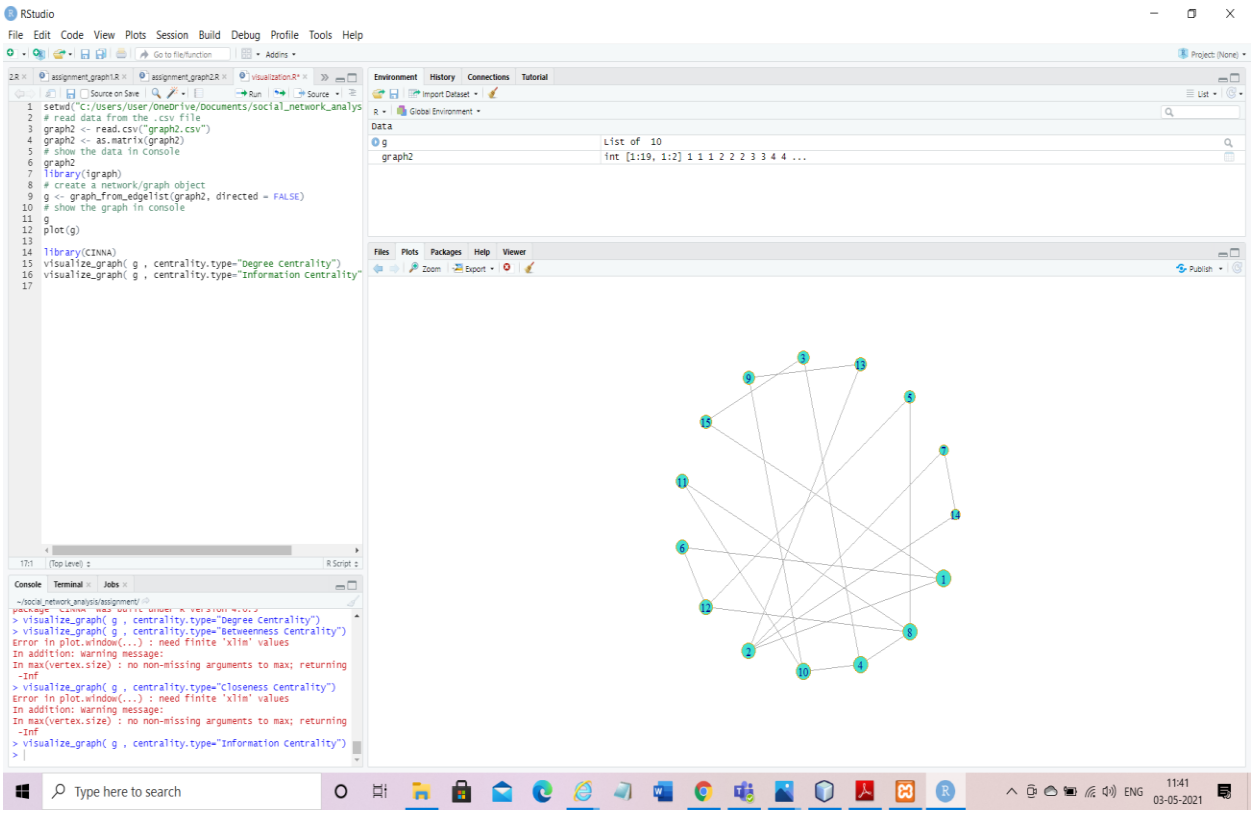
Degree centrality:



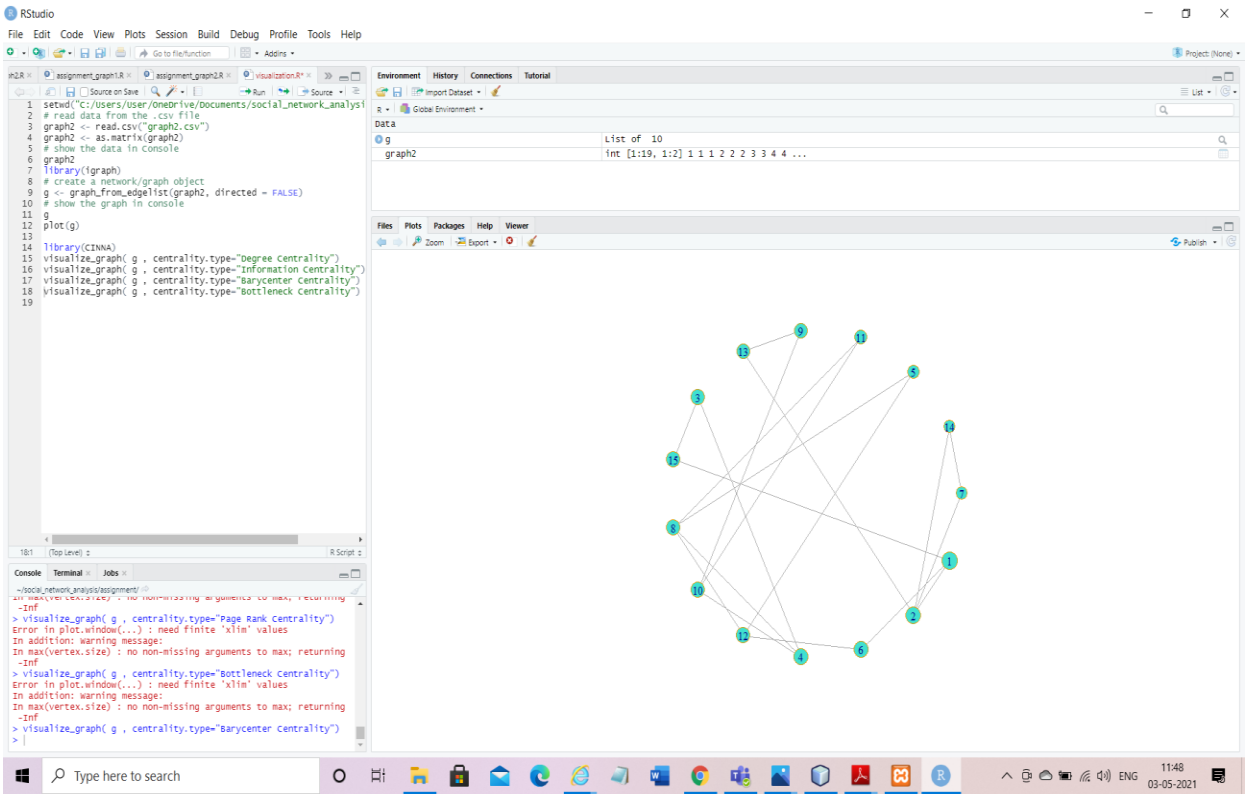
Entropy Centrality:



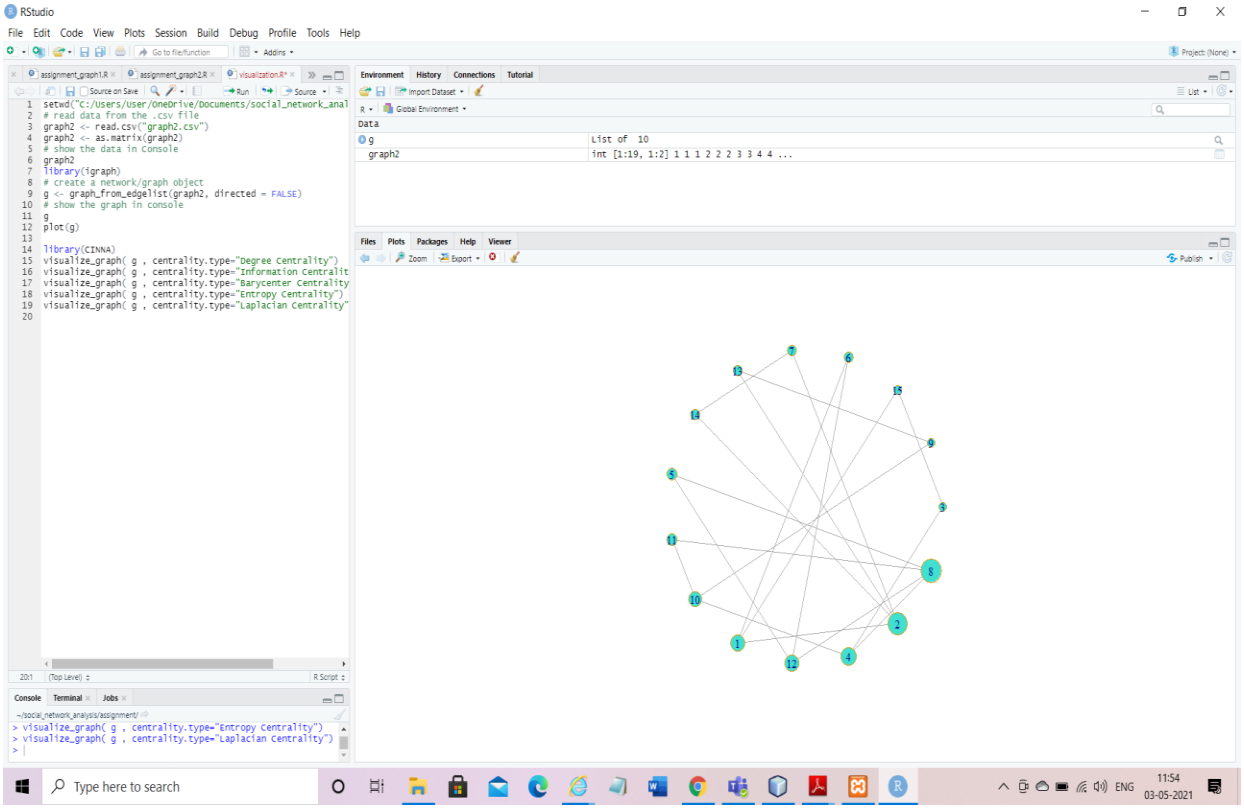
Information Centrality:



Barycenter Centrality:



Laplacian Centrality:


RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
assignment_graph1.R
assignment_graph2.R
visualization.R*
setwd("C:/Users/user/OneDrive/Documents/social_network_anal
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graph2 <- as.matrix(graph2)
# show the data in Console
graph2
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# create a network/graph object
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visualize_graph(g , centrality.type="Laplacian Centrality"
Environment History Connections Tutorial
Import Dataset
Global Environment
Data
g List of 10
graph2 int [1:19, 1:2] 1 1 1 2 2 2 3 3 4 4 ...
Files Plots Packages Help Viewer
Zoom Export Publish
Console Terminal Jobs
~/social_network_analysis/assignment/
> visualize_graph(g , centrality.type="Entropy Centrality")
> visualize_graph(g , centrality.type="Laplacian Centrality")
Type here to search
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