Graph Library Used:

NetworkX

https://networkx.org/

Network Repository Used:

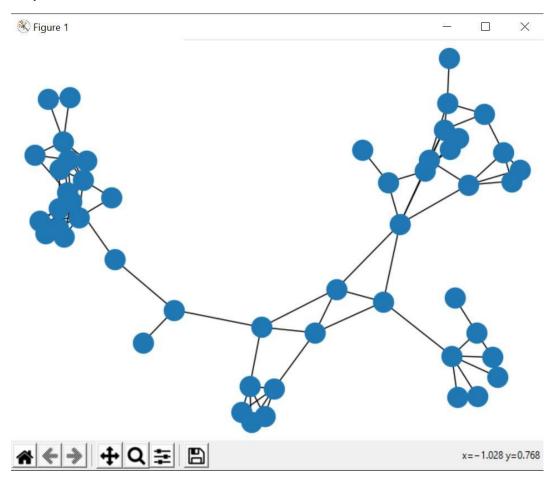
mammalia-voles-bhp-trapping-55

http://networkrepository.com/mammalia-voles-bhp-trapping-55.php

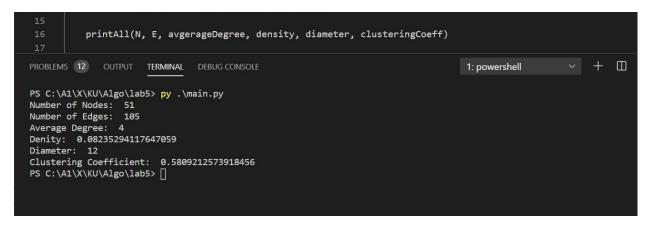
Network Details:

nol Network Data Statistics	
Nodes	51
Edges	105
Density	0.0823529
Maximum degree	9
Minimum degree	1
Average degree	4
Assortativity	0.355361
Number of triangles	252
Average number of triangles	4
Maximum number of triangles	20
Average clustering coefficient	0.580921
Fraction of closed triangles	0.588785
Maximum k-core	7
Lower bound of Maximum Clique	4

Graph Plot:



Output:



Network Repository Used:

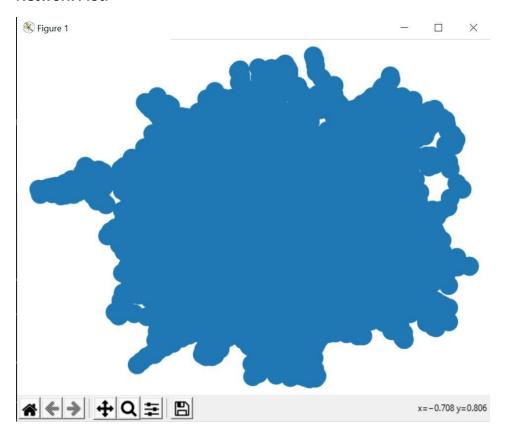
DD21

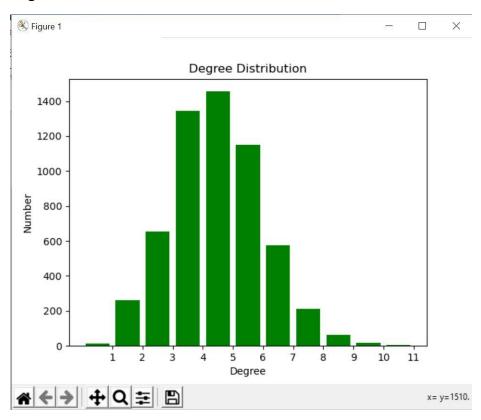
http://networkrepository.com/DD21.php

Network Properties Output:

```
PROBLEMS 5 OUTPUT TERMINAL DEBUG CONSOLE

PS C:\A1\X\KU\Algo\lab5> py .\main.py
Number of Nodes: 5748
Number of Edges: 14267
Average Degree: 4
Denity: 0.0008637830950861294
Diameter: Graph is not connected.
Clustering Coefficient: 0.45842389748965756
PS C:\A1\X\KU\Algo\lab5>
```





Network Repository Used:

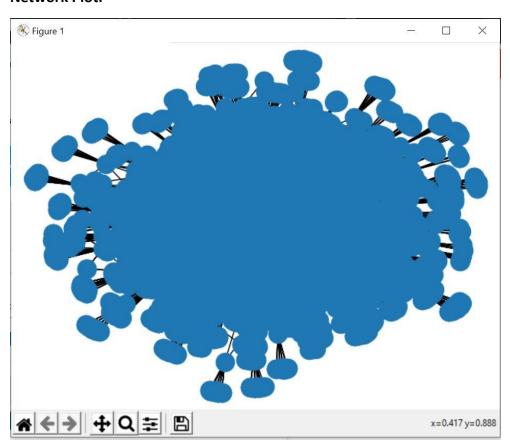
Erdos02

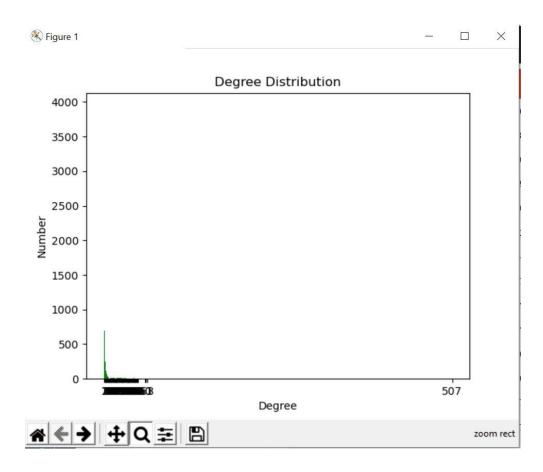
http://networkrepository.com/Erdos02.php

Network Properties Output:

```
PROBLEMS 7 OUTPUT TERMINAL DEBUG CONSOLE

PS C:\A1\X\KU\Algo\lab5> py .\main.py
Number of Nodes: 5534
Number of Edges: 8472
Average Degree: 3
Denity: 0.0005533706457904673
Diameter: 4
Clustering Coefficient: 0.07934005936906241
PS C:\A1\X\KU\Algo\lab5>
```





Network Repository Used:

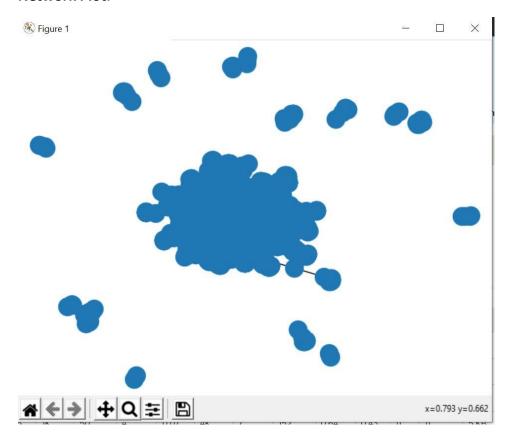
ca-Erdos992

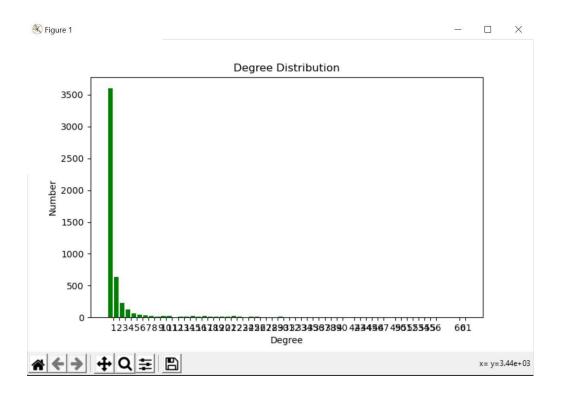
http://networkrepository.com/ca-Erdos992.php

Network Properties Output:

```
PROBLEMS 7 OUTPUT TERMINAL DEBUG CONSOLE

PS C:\A1\X\KU\Algo\lab5> py .\main.py
Number of Nodes: 5094
Number of Edges: 7515
Average Degree: 2
Denity: 0.0005793304605018043
Diameter: Graph is not connected.
Clustering Coefficient: 0.08183579121192532
PS C:\A1\X\KU\Algo\lab5>
```





Network Repository Used:

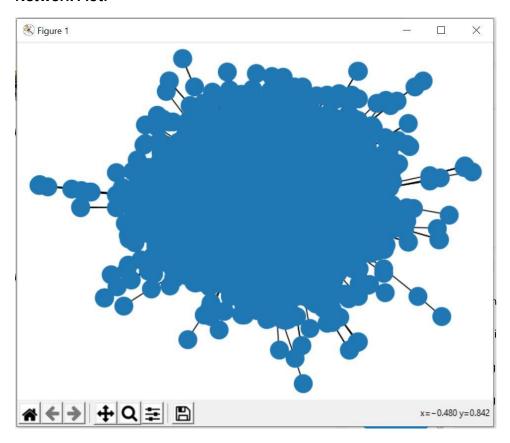
Bio-dmela

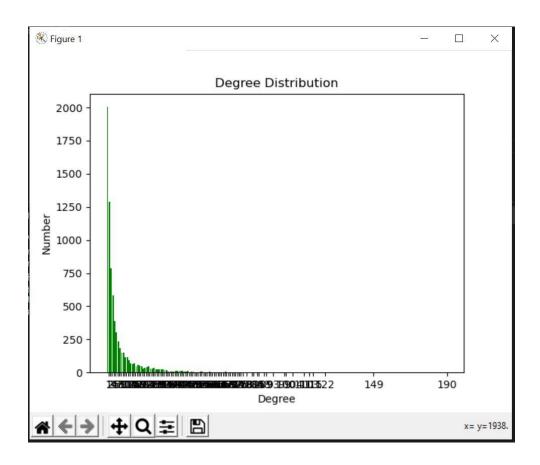
http://networkrepository.com/bio-dmela.php

Network Properties Output:

```
PROBLEMS 5 OUTPUT TERMINAL DEBUG CONSOLE

PS C:\A1\X\KU\Algo\lab5> py .\main.py
Number of Nodes: 7393
Number of Edges: 25569
Average Degree: 6
Denity: 0.0009357526688109672
Diameter: 11
Clustering Coefficient: 0.01185017524193749
PS C:\A1\X\KU\Algo\lab5> [
```





Network Repository Used:

as-735

http://networkrepository.com/as-735.php

Network Properties Output:

```
PROBLEMS 5 OUTPUT TERMINAL DEBUG CONSOLE

PS C:\A1\X\KU\Algo\lab5> py .\main.py
Number of Nodes: 6474
Number of Edges: 13895
Average Degree: 4
Denity: 0.0006631476648730896
Diameter: 9
Clustering Coefficient: 0.7992681162154995
PS C:\A1\X\KU\Algo\lab5>
```

