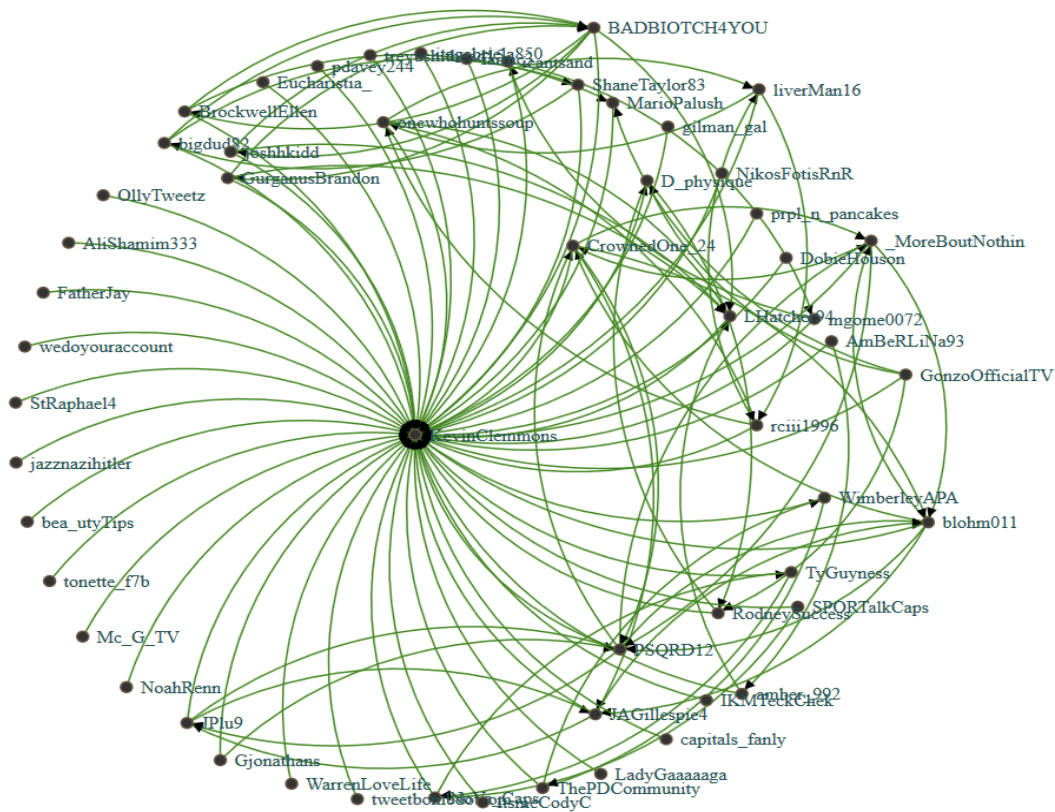PART 1:

For this assignment, we were to gather all the followers of a Twitter account and output their usernames along with their followers. Unfortunately, my Twitter account did not have the minimum number of followers to be used for the assignment. However, my colleague gave me permission to extract data from his Twitter account in order to do the assignment.

```
atria.cs.odu.edu - PuTTY
    for follower in limit_handled(tweepy.Cursor(api.followers,screen_name=usr).items()):
  File "networkCreator.py", line 17, in limit_handled
    time.sleep(15 * 60)
KeyboardInterrupt
atria:~/CS432/A6> python twitterExtrt.py
Creating List of Followers for: KevinClemmons
        Adding: itagabriela850
        Adding: ShaneTaylor83
        Adding: prpl_n_pancakes
        Adding: icantsand
        Adding: mgome0072
        Adding: SPORTalkCaps
        Adding: pdavey244
        Adding: NoVa_Caps
        Adding: tweetbombdotcom
        Adding: wedoyouraccount
        Adding: AliShamim333
        Adding: TyGuyness
        Adding: GurganusBrandon
        Adding: NikosFotisRnR
        Adding: jazznazihitler
        Adding: bigdud82
        Adding: onewhohuntssoup
        Adding: NoahRenn
        Adding: tonette_f7b
        Adding: liverMan16
        Adding: Mc_G_TV
        Adding: WimberleyAPA
        Adding: joshhkidd
        Adding: BrockwellEllen
        Adding: StRaphael4
        Adding: _MoreBoutNothin
        Adding: farmc3
        Adding: Eucharistia_
        Adding: ThePDCommunity
        Adding: BADBIOTCH4YOU
        Adding: RodneySuccess
        Adding: MarioPalush
        Adding: IKMTeckChek
        Adding: AmBeRLiNa93
        Adding: bea_utyTips
        Adding: treyushithead15
        Adding: amber_992
        Adding: D_physique
        Adding: GonzoOfficialTV
        Adding: DobieHouson
        Adding: OllyTweetz
        Adding: LHatcher94
        Adding: Gjonathans
        Adding: LadyGaaaaaga
        Adding: gilman_gal
        Adding: WarrenLoveLife
        Adding: FatherJay
        Adding: rciii1996
        Adding: CrownedOne_24
        Adding: JPlu9
        Adding: itsmeCodyC
        Adding: JAGillespie4
        Adding: PSQRD12
        Adding: blohm011
Rate Limit Exceeded, Sleeping for 15 Minutes
```

GRAPH:

```
source,target,value
bigdud82,ShaneTaylor83,1.1
mgome0072,icantsand,1.1
icantsand,mgome0072,1.1
SPORTalkCaps,NoVa_Caps,1.1
TyGuyness,NoVa_Caps,1.1
NoVa_Caps,TyGuyness,1.1
BADBIOTCH4YOU,GurganusBrandon,1.1
ShaneTaylor83,bigdud82,1.1
liverMan16,onewhohuntssoup,1.1
rciii1996,onewhohuntssoup,1.1
onewhohuntssoup,liverMan16,1.1
rciii1996,liverMan16,1.1
ThePDCommunity,WimberleyAPA,1.1
BADBIOTCH4YOU,joshhkidd,1.1
BADBIOTCH4YOU,BrockwellEllen,1.1
CrownedOne_24,_MoreBoutNothin,1.1
PSQRD12,_MoreBoutNothin,1.1
blohm011,_MoreBoutNothin,1.1
WimberleyAPA,ThePDCommunity,1.1
GurganusBrandon,BADBIOTCH4YOU,1.1
bigdud82,BADBIOTCH4YOU,1.1
joshhkidd,BADBIOTCH4YOU,1.1
BrockwellEllen,BADBIOTCH4YOU,1.1
D_physique,RodneySuccess,1.1
GonzoOfficialTV,RodneySuccess,1.1
BrockwellEllen,MarioPalush,1.1
GonzoOfficialTV,MarioPalush,1.1
AmBeRLiNa93,amber_992,1.1
RodneySuccess,D_physique,1.1
GonzoOfficialTV,D_physique,1.1
GurganusBrandon,LHatcher94,1.1
onewhohuntssoup,LHatcher94,1.1
joshhkidd,LHatcher94,1.1
BADBIOTCH4YOU,LHatcher94,1.1
amber_992,LHatcher94,1.1
onewhohuntssoup,rciii1996,1.1
liverMan16,rciii1996,1.1
_MoreBoutNothin,CrownedOne_24,1.1
PSQRD12,CrownedOne_24,1.1
blohm011,CrownedOne_24,1.1
```

JAGillespie4,JPlu9,1.1
PSQRD12,JPlu9,1.1
CrownedOne_24,JAGillespie4,1.1
JPlu9,JAGillespie4,1.1
blohm011,JAGillespie4,1.1
_MoreBoutNothin,PSQRD12,1.1
Gjonathans,PSQRD12,1.1
CrownedOne_24,PSQRD12,1.1
JPlu9,PSQRD12,1.1
blohm011,PSQRD12,1.1
_MoreBoutNothin,blohm011,1.1
CrownedOne_24,blohm011,1.1
JAGillespie4,blohm011,1.1
PSQRD12,blohm011,1.1
capitals_fanly,KevinClemmons,1.1
itagabriela850,KevinClemmons,1.1
ShaneTaylor83,KevinClemmons,1.1
prpl_n_pancakes,KevinClemmons,1.1
icantsand,KevinClemmons,1.1
mgome0072,KevinClemmons,1.1
SPORTalkCaps,KevinClemmons,1.1
pdavey244,KevinClemmons,1.1
NoVa_Caps,KevinClemmons,1.1
tweetbombdotcom,KevinClemmons,1.1
wedoyouraccount,KevinClemmons,1.1
AliShamim333,KevinClemmons,1.1
TyGuyness,KevinClemmons,1.1
GurganusBrandon,KevinClemmons,1.1
NikosFotisRnR,KevinClemmons,1.1
jazznazihitler,KevinClemmons,1.1
bigdud82,KevinClemmons,1.1
onewhohuntssoup,KevinClemmons,1.1
NoahRenn,KevinClemmons,1.1
tonette_f7b,KevinClemmons,1.1
liverMan16,KevinClemmons,1.1
Mc_G_TV,KevinClemmons,1.1
WimberleyAPA,KevinClemmons,1.1
joshhkidd,KevinClemmons,1.1
BrockwellEllen,KevinClemmons,1.1
StRaphael4,KevinClemmons,1.1
_MoreBoutNothin,KevinClemmons,1.1
farmc3,KevinClemmons,1.1
Eucharistia_,KevinClemmons,1.1
ThePDCommunity,KevinClemmons,1.1
BADBIOTCH4YOU,KevinClemmons,1.1
RodneySuccess,KevinClemmons,1.1
MarioPalush,KevinClemmons,1.1
IKMTeckChek,KevinClemmons,1.1

AmBeRLiNa93,KevinClemmons,1.1
bea_utyTips,KevinClemmons,1.1
treyushithead15,KevinClemmons,1.1
amber_992,KevinClemmons,1.1
D_physique,KevinClemmons,1.1
GonzoOfficialTV,KevinClemmons,1.1
DobieHouson,KevinClemmons,1.1
OllyTweetz,KevinClemmons,1.1
LHatcher94,KevinClemmons,1.1
Gjonathans,KevinClemmons,1.1
LadyGaaaaaga,KevinClemmons,1.1
gilman_gal,KevinClemmons,1.1
WarrenLoveLife,KevinClemmons,1.1
FatherJay,KevinClemmons,1.1
rciii1996,KevinClemmons,1.1
CrownedOne_24,KevinClemmons,1.1
JPlu9,KevinClemmons,1.1
itsmeCodyC,KevinClemmons,1.1
JAGillespie4,KevinClemmons,1.1
PSQRD12,KevinClemmons,1.1
blohm011,KevinClemmons,1.1

http://bl.ocks.org/d3noob/5141278

https://github.com/mbostock/d3

PART 2:

For part 2 of this assignment, we were to create a graph based on the male-female gender data of Kevin's Twitter data. As it can be seen

jazznazihitler & jay z\\\hline
WimberleyAPA & Wimberley APA (WAPA)\\\hline
tweetbombdotcom & TweetBomb.com\\\hline
tonette_f7b & tonette_f7b\\\hline
pdavey244 & Pat\\\hline
Mc_G_TV & Mc G TV\\\hline
NoVa_Caps & NoVa Caps\\\hline
IKMTeckChek & IKM TeckChek\\\hline
BADBIOTCH4YOU & .\\\hline
SPORTalkCaps & Capitals SPORTalk\\\hline
blohm011 & Hunter Blohm\\\hline
capitals_fanly & Capitals Report\\\hline
gilman_gal & cabbage patch kid\\\hline
GonzoOfficialTV & GONZO\\\hline
ShaneTaylor83 & Shane Taylor\\\hline
onewhohuntssoup & Hunter Zupo\\\hline
TyGuyness & Tyler Humphries\\\hline
wedoyouraccount & wedoyouraccounting\\\hline
OllyTweetz & I Follow Back ;) !\\\hline
NikosFotisRnR & NikosFotisR'nRoller\\\hline
farmc3 & A. P. Parsley\\\hline
_MoreBoutNothin & Scott, Marquis\\\hline
FatherJay & Jay Wagner\\\hline
mgome0072 & mg\\\hline
icantsand & Sandy 'man' Wilson\\\hline
Eucharistia_ & Real Presence\\\hline
itsmeCodyC & Cody Crampton\\\hline

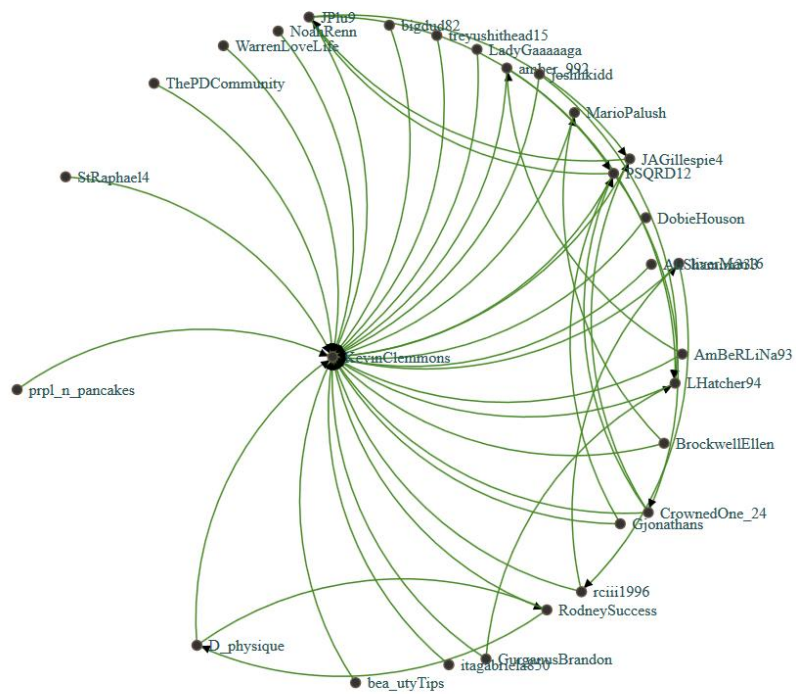CALCULATOINS:
45 Edges total

1 Female to Female

32 Male to Male

12 Female to Male

P = 1 / 45 = 0.0222

Q = 32 / 45 = 0.7111

R = 1 / 45 = 0.2666

2 * PQ = **0.0315 > 0.2666**

After going through the calculations, it is evident that gender homophily is present in the data.