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Lab : 3

In [1]:



```
import requests
import base64
import networkx as nx
from github import Github
from pprint import pprint
```

In [2]:



```
username="ArulkumarARK"
url=f"https://api.github.com/users/{username}"
user_data=requests.get(url).json()
pprint(user_data)
```

```
{'avatar_url': 'https://avatars.githubusercontent.com/u/110402176?v=4',
 'bio': None,
 'blog': '',
 'company': None,
 'created_at': '2022-08-01T13:21:14Z',
 'email': None,
 'events_url': 'https://api.github.com/users/ArulkumarARK/events{/privac
y}',
 'followers': 0,
 'followers_url': 'https://api.github.com/users/ArulkumarARK/followers',
 'following': 0,
 'following_url': 'https://api.github.com/users/ArulkumarARK/following{/o
ther_user}',
 'gists_url': 'https://api.github.com/users/ArulkumarARK/gists{/gist_i
d}',
 'gravatar_id': '',
 'hireable': None,
 'html_url': 'https://github.com/ArulkumarARK',
 'id': 110402176,
 'location': None,
 'login': 'ArulkumarARK',
 'name': None,
 'node_id': 'U_kgDOBpSagA',
 'organizations_url': 'https://api.github.com/users/ArulkumarARK/orgs',
 'public_gists': 0,
 'public_repos': 3,
 'received_events_url': 'https://api.github.com/users/ArulkumarARK/receiv
ed_events',
 'repos_url': 'https://api.github.com/users/ArulkumarARK/repos',
 'site_admin': False,
 'starred_url': 'https://api.github.com/users/ArulkumarARK/starred{/owne
r}/{repo}',
 'subscriptions_url': 'https://api.github.com/users/ArulkumarARK/subscrip
tions',
 'twitter_username': None,
 'type': 'User',
 'updated_at': '2023-07-20T16:57:41Z',
 'url': 'https://api.github.com/users/ArulkumarARK'}
```

In [3]:



```
username="KRISHNA110202"
g=Github()
user=g.get_user(username)
for repo in user.get_repos():
    print(repo)
```

```
Repository(full_name="KRISHNA110202/Titanic-Disaster")
```

In [4]:



```
ACCESS_TOKEN="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"
USER="ptwobrussell"
REPO="Mining-the-Social-Web"
client=Github(ACCESS_TOKEN, per_page=100)
user=client.get_user(USER)
repo=user.get_repo(REPO)
stargazers=[s for s in repo.get_stargazers()]
print("Number of stargazers", len(stargazers))
```

Number of stargazers 1210

In [5]:



```
g=nx.DiGraph()
g.add_node(repo.name+"(repo)",type='repo',lang=repo.language,owner=user.login)
for sg in stargazers:
    g.add_node(sg.login+"(user)",type='user')
    g.add_edge(sg.login+"(user)",repo.name+"(repo)",type='gazes')
```

In [6]:



```
print(nx.info(g))
print(g.nodes['Mining-the-Social-Web(repo)'])
print(g.nodes['ptwobrussell(user)'])
print(g['ptwobrussell(user)']['Mining-the-Social-Web(repo)'])
print(g['ptwobrussell(user)'])
print(g['Mining-the-Social-Web(repo)'])
print(g.in_edges(['ptwobrussell(user)']))
print(g.out_edges(['ptwobrussell(user)']))
print(g.in_edges(['Mining-the-Social-Web(repo)']))
print(g.out_edges(['Mining-the-Social-Web(repo)']))
```

DiGraph with 1211 nodes and 1210 edges

```
{'type': 'repo', 'lang': 'JavaScript', 'owner': 'ptwobrussell'}
{'type': 'user'}
{'type': 'gazes'}
{'Mining-the-Social-Web(repo)': {'type': 'gazes'}}
{}
[]
[('ptwobrussell(user)', 'Mining-the-Social-Web(repo)')]
[('rdempsey(user)', 'Mining-the-Social-Web(repo)'), ('prb(user)', 'Mining-the-Social-Web(repo)'), ('mcroydon(user)', 'Mining-the-Social-Web(repo)'), ('twleung(user)', 'Mining-the-Social-Web(repo)'), ('kevinchiu(user)', 'Mining-the-Social-Web(repo)'), ('nikolay(user)', 'Mining-the-Social-Web(repo)'), ('tswicegood(user)', 'Mining-the-Social-Web(repo)'), ('ngpestelos(user)', 'Mining-the-Social-Web(repo)'), ('darron(user)', 'Mining-the-Social-Web(repo)'), ('brunojm(user)', 'Mining-the-Social-Web(repo)'), ('rgaidot(user)', 'Mining-the-Social-Web(repo)'), ('openweb(user)', 'Mining-the-Social-Web(repo)'), ('shanlalit(user)', 'Mining-the-Social-Web(repo)'), ('hoffmann(user)', 'Mining-the-Social-Web(repo)'), ('nacht(user)', 'Mining-the-Social-Web(repo)'), ('hectore
```

In [ ]:

