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CSE 464
Project Part 1

- 1) Github link - https://github.com/yuktasarode/CSE4642023_ysarode
- 2) Output screenshots -
 - a) Feature 1:

Remove Node:

```
Node e is removed successfully
Total number of nodes: 7
Total number of edges: 4
Node Labels: [a, b, c, d, f, g, h]
Edges: a -> b, b -> c, c -> d, d -> a
```

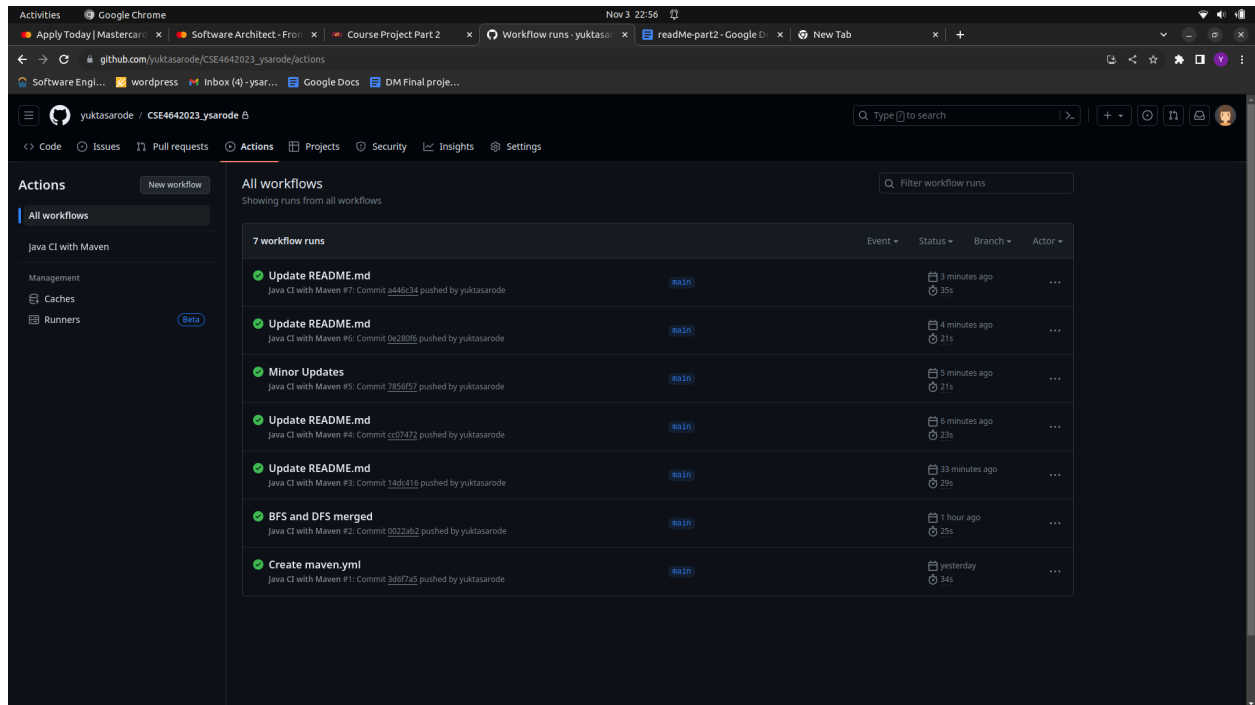
Remove Nodes:

```
Total number of nodes: 7
Total number of edges: 4
Node Labels: [a, b, c, d, f, g, h]
Edges: a -> b, b -> c, c -> d, d -> a
Node h is removed successfully
Node g is removed successfully
Total number of nodes: 5
Total number of edges: 4
Node Labels: [a, b, c, d, f]
Edges: a -> b, b -> c, c -> d, d -> a
```

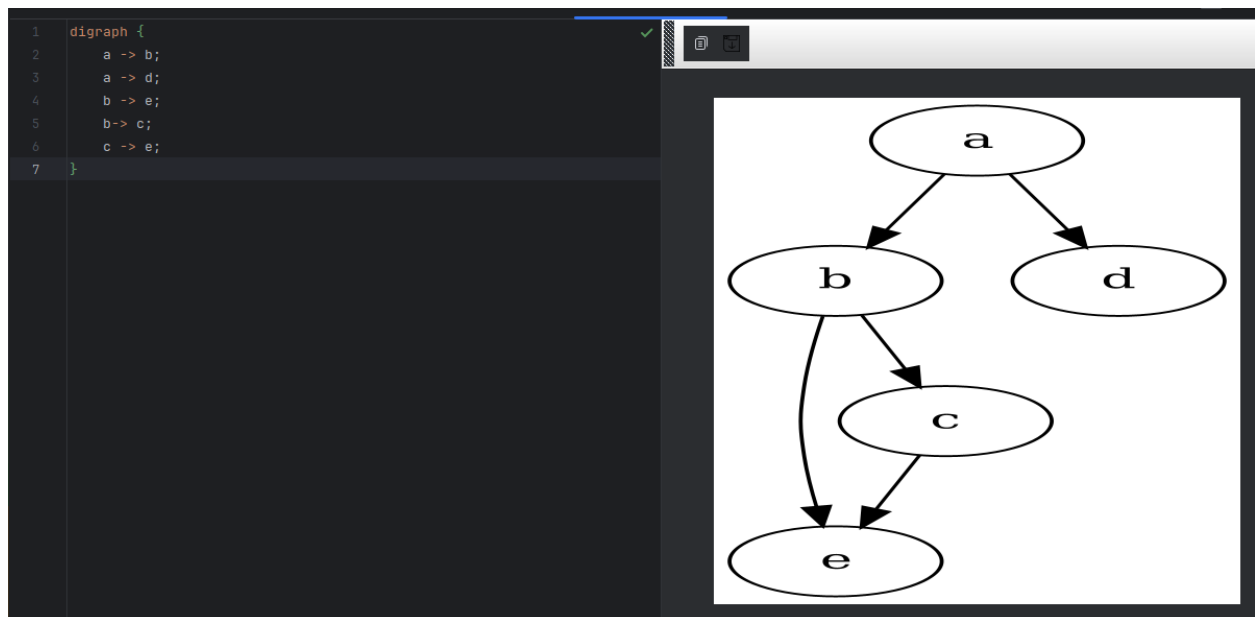
Remove Edge:

```
Total number of nodes: 5
Total number of edges: 4
Node Labels: [a, b, c, d, f]
Edges: a -> b, b -> c, c -> d, d -> a
Edge is successfully removed between a to b
Total number of nodes: 5
Total number of edges: 3
Node Labels: [a, b, c, d, f]
Edges: b -> c, c -> d, d -> a
```

b) Feature 2:



c) For Feature 3 & Feature 4 I am using a new graph:



i) Feature 3 - BFS:

BFS: a -> b -> e

ii) Feature 4 - DFS:

DFS: a -> b -> c -> e

d) Feature 5:



3) Each commit Link -

a) Feature 1 Commit -

https://github.com/yuktasarode/CSE4642023_ysarode/commit/1946ea6031ed9e5d8b9dab4399c1e71e7e3426e5

b) Feature 2 Commit -

https://github.com/yuktasarode/CSE4642023_ysarode/commit/3d6f7a53dbc36f6b6a9544850f503e7a7a2768ff

c) Feature 3 Commit BFS -

https://github.com/yuktasarode/CSE4642023_ysarode/commit/c56df60628b697ba716494734c93ea6f99065792

https://github.com/yuktasarode/CSE4642023_ysarode/commit/c36a490a83ad228e51f7a2b26bab2f30874f361e

d) Feature 4 Commit DFS-

https://github.com/yuktasarode/CSE4642023_ysarode/commit/ecb17c0d4458d0d5862459ae7be5afe80a008d6c

https://github.com/yuktasarode/CSE4642023_ysarode/commit/16780c1fed34689c9b38237b2a22556dd0524745

e) Feature 5 Commit -

https://github.com/yuktasarode/CSE4642023_ysarode/commit/0022ab2ee6817fe3db268b0144e4db266bb3a40f

f) Tested Added Commit -

https://github.com/yuktasarode/CSE4642023_ysarode/commit/1946ea6031ed9e5d8b9dab4399c1e71e7e3426e5

https://github.com/yuktasarode/CSE4642023_ysarode/commit/2eddb77c5bddb2d405678d68dc58b1e8beba9e6e

https://github.com/yuktasarode/CSE4642023_ysarode/commit/9e0905b2d99436416136964a73e2d1b681e263b8

https://github.com/yuktasarode/CSE4642023_ysarode/commit/d039e38279d330dca26fadaffe8613747448e9f6