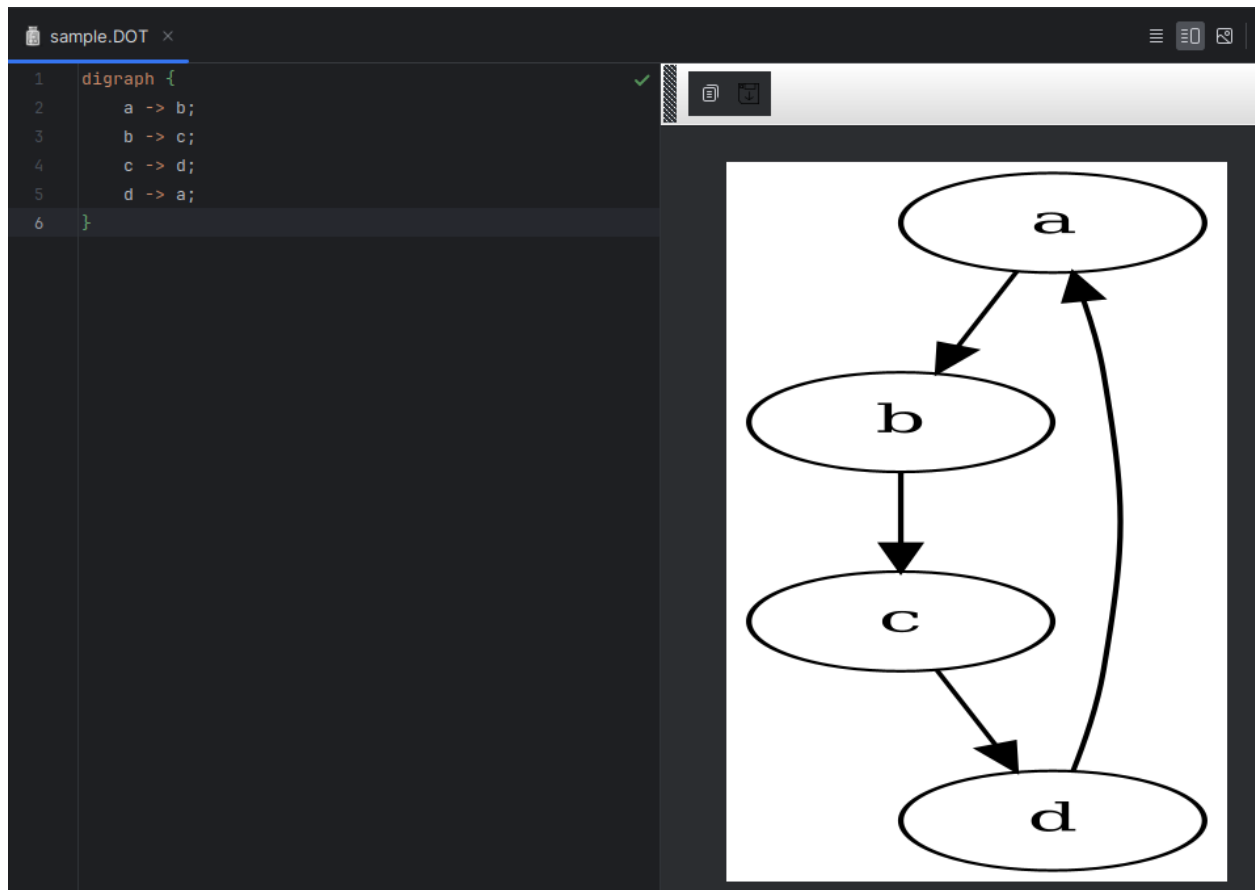


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CSE 464
Project Part 1

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



b) Feature 1 - Output nodes and edges

```
≡ outputGraph.txt ×  
1 Total number of nodes: 4  
2 Total number of edges: 4  
3 Node Labels: [a, b, c, d]  
4 Edges: a -> b, b -> c, c -> d, d -> a  
5
```

```
/usr/lib/jvm/java-1.11.0-openjdk-amd64/bin/java -javaagent:/snap/intellij-idea-com  
Total number of nodes: 4  
Total number of edges: 4  
Node Labels: [a, b, c, d]  
Edges: a -> b, b -> c, c -> d, d -> a
```

c) Feature 2 - Add nodes

```
The node f has been added to the graph  
The node e has been added to the graph  
The node g has been added to the graph  
The node a is already present in the graph.  
The node h has been added to the graph
```

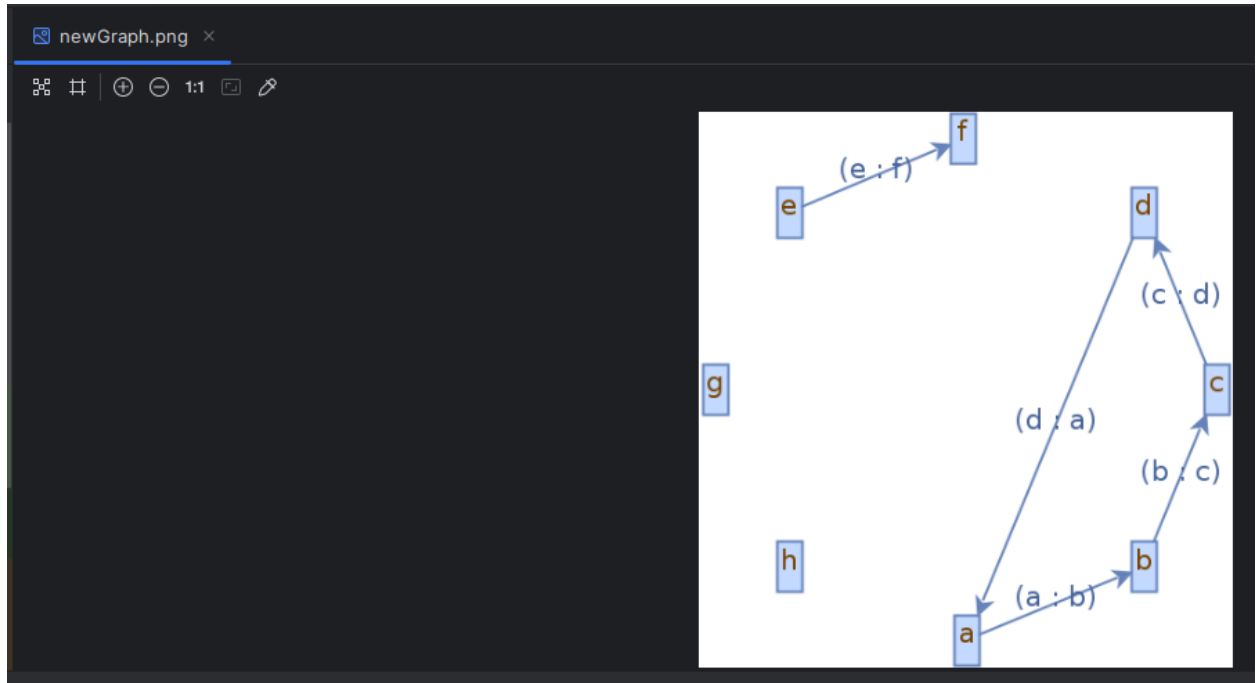
d) Feature 3 - Add edges

```
Edge has been added from e to f  
Total number of nodes: 8  
Total number of edges: 5  
Node Labels: [a, b, c, d, f, e, g, h]  
Edges: a -> b, b -> c, c -> d, d -> a, e -> f  
Cannot add edge from a to b. Already present.
```

e) Feature 4 - Output graph in png and DOT file

```
Exported graph to DOT format successfully.  
Successfully saved image of graph to src/main/newGraph.png  
  
Process finished with exit code 0  
|
```

PNG file -



outGraph.DOT x

```
1  strict digraph G {
2      a;
3      b;
4      c;
5      d;
6      f;
7      e;
8      g;
9      h;
10     a -> b;
11     b -> c;
12     c -> d;
13     d -> a;
14     e -> f;
15 }
```

DOT file -

3) Each commit Link -

a) Feature 1 Commit -

https://github.com/yuktasarode/CSE4642023_ysarode/commit/266cfa27b9a2e54514ef81d2e754553bd402c637

b) Feature 2 Commit -

https://github.com/yuktasarode/CSE4642023_ysarode/commit/dd1840daab5b949fa4efd97a2a75ff6bdfb07f4

c) Feature 3 Commit -

https://github.com/yuktasarode/CSE4642023_ysarode/commit/b9281b8e976990c5a584e960d9a881472880c9a3

d) Feature 4 Commit -

https://github.com/yuktasarode/CSE4642023_ysarode/commit/371928cb18ae4e108101da8a4557ad437398cea5

e) Tested Added Commit -

- i) https://github.com/yuktasarode/CSE4642023_ysarode/commit/2815ac137d428cad9470f4643bf6d45de29d5e17
- ii) https://github.com/yuktasarode/CSE4642023_ysarode/commit/bb0b833f1bb87345259fd9890ab63546120531c8