https://github.com/Fonz-Hamilton/CSE-464-2024-Cahamil1

Course project part 1 for CSE 464

Features:

- parseGraph parses DOT file https://github.com/Fonz-Hamilton/CSE-464-2024-Cahamil1/commit/c59eeeacf8e0b01d00113c 568aba2629dd9907a6
- addNode and addNodes allows you to add a node to the graph https://github.com/Fonz-Hamilton/CSE-464-2024-Cahamil1/commit/1f63bc43a9078c84aff55d 94481f126420c750b7
- addEdge allows you to add an edge between nodes
 https://github.com/Fonz-Hamilton/CSE-464-2024-Cahamil1/commit/97e3ea4e13eebf2b652f80
 08196e3d73bfb7825a
- outputDOTGraph allows you to output a file of the graph in DOT format
- outputGraphics allows you to output a png file of the graph https://github.com/Fonz-Hamilton/CSE-464-2024-Cahamil1/commit/844ccb1de8b97a2581674 955bc59b1221942e60d

parseGraph -

DOTGraph dotGraph = new DOTGraph();

dotGraph.parseGraph("input.dot");
System.out.println(dotGraph.toString());

```
/home/fonz/.jdks/corretto-11.0.24/bin/java ...

Graph parsed
digraph {
  "a" -> "b"
  "a" -> "c"
  "b" -> "c"
  "c" -> "d"
  "d" -> "a"
  "e" -> "f"
  "e" -> "f"
  "g" -> "h"
  }

Process finished with exit code 0
```

```
String[] nodesToAdd = {"Z", "X", "Y"};
dotGraph.addNodes(nodesToAdd);
System.out.println(dotGraph.toString());
addNode -
   String addedNode = "G";
dotGraph.addNode(addedNode);
```

System.out.println(dotGraph.toString());

addNodes -

```
Added node: Z
Added node: X
Added node: Y
digraph {
"a" -> "b"
"b" -> "c"
"c" -> "d"
"d" -> "a"
"e" -> "q"
"f" -> "h"
"g" -> "h"
digraph {
"G"
"g" -> "h"
```

```
digraph {
"G"
digraph {
digraph {
```

```
digraph {
"Z"
"Y"
"G"
"a" -> "b"
"a" -> "e"
"b" -> "c"
"c" -> "d"
"d" -> "a"
"e" -> "f"
"e" -> "g"
"f" -> "h"
"g" -> "h"
"X" -> "G"
"X" -> "Z"
"X" -> "Y"
}
Process finished with exit code 0
```

outputDOTGraph dotGraph.outputDOTGraph("output.dot");

