

C:\Data-Structures-Algorithms\Graph\src\Graph\driver.java

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1 //Name:    Mark Lambert, Darius Herdes
2 //Date:    10/12/2024
3 //Purpose: Data Structures & Algorithms Final Assessment
4 //Main class
5 package Graph;
6
7 public class driver {
8
9     public static void main(String[] args) {
10         // TODO Auto-generated method stub
11         Graph g = new Graph();
12
13         //Node A
14         g.addSite("Rock of Donamase", 52.637827, -6.7937563);
15         //Node B
16         g.addSite("O'Moore Park", 52.662661, -6.6598326);
17         //Node C
18         g.addSite("Donamase Art Centre", 52.690146, -6.650620);
19         //Node D
20         g.addSite("The Heath Golf Club", 52.682317, -6.581056);
21         //Node E
22         g.addSite("Emo Court", 52.637440, -6.622554);
23         //Node F
24         g.addSite("Portlaoise Herritage Hotel", 52.590639, -6.499220);
25
26         //Print new line for interface purposes
27         System.out.println();
28
29
30         //Sample search calls
31         g.search("Rock of Donamase");
32         g.search("Portlaoise Herritage Hotel");
33         g.search("Emo Court");
34
```

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35 //Print new line for interface purposes
36 System.out.println();
37
38
39 //Insertion of node A associated edges
40 g.insert("Rock of Donamase", "Emo Court", 7.71);
41 g.insert("Rock of Donamase", "The Heath Golf Club", 2.41);
42 g.insert("Rock of Donamase", "O'Moore Park", 3.68);
43
44 //Insertion of node B associated edges
45 g.insert("O'Moore Park", "Donamase Art Centre", 6.01);
46
47 //Insertion of node C associated edges
48 g.insert("Donamase Art Centre", "The Heath Golf Club", 5.52);
49 g.insert("Donamase Art Centre", "Portlaoise Herritage Hotel", 8.42);
50
51 //Insertion of node E associated edges
52 g.insert("Emo Court", "Portlaoise Herritage Hotel", 9.97);
53
54 //Remaining associations complete as un-dirrected graph completes the reverse association automatically
55
56 g.allCons("Rock of Donamase");
57 g.closest("Rock of Donamase");
58 }
59
60 }
61
```