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1  /**
2   * @author Amar Bessedik
3   * This program user executes Kruskal's algorithm on 3 different graphs
4   * and computes their Minimum Spanning Trees.
5   * CSC560 - Kruskal Project.
6   */
7  public class KruskalUser
8  {
9      static Edge[] E;//Hold a graph's edges
10     static int V, i;//"V" is # of vertices, "i" is a counter of titles.
11
12     public static void main(String[] args)
13     {
14         final String[] Title =
15         {
16             "1ST GRAPH: ", "2ND GRAPH: ", "3RD GRAPH: "
17         };
18
19         final String path = "C:\\Users\\Amar-cs\\Desktop\\CSC560\\Kruskals_project\\";
20
21         Graph G1 = new Graph(path + "data1");//Graph 1.
22         Graph G2 = new Graph(path + "data2");//Graph 2.
23         Graph G3 = new Graph(path + "data3");//Graph 3.
24
25         Graph[] graphs = {G1, G2, G3};//Array of graphs.
26
27         Kruskal k;//Kuskal instance.
28
29         for (Graph G : graphs)
30         {
31             k = new Kruskal(G);//Kruskal's object.
32             System.out.println(Title[i++]);//print graph's title.
33
34             get_params(G);//extract edges and # of vertices from the graph.
35
36             k.kruskal(V, E);//Run Kruskal's Algorithm on G's parameters.
37         }//end for
38     }//end main
39
40     private static void get_params(Graph G)
41     {
42         E = G.getEdges();// get edges of G.
43         V = G.getVertices();//get # of vertices of G.
44     }//end get_params
45 }//end main class
46

```