Project 5 MPLS with DiffServ

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**Implementation**

**Dijkstra Routing algorithm:**

**I have implemented a Dijkstra algorithm based routing algorithm. The DijkstraRouting.class accepts the whole graph as a input and set the next-hop routing table in each router.**

**The testing results show that this algorithm is working on arbitrary connected graph topology.**

**MPLS RSVP label distribution:**

**I have implemented the MPLS RSVP label distribution algorithm. The test case in the example shows the path setup and label distribution part is working.**

**DiffServ:**

**I have defined the DSCP or traffic class code for different classes:**

**BE: 0**

**EF: 1**

**AF -class n–Drop pref m would be 2nm**

**Eg. AF-Class 1- Drop pref 2 would be 212**

**I will reserve the resources in each hop from the DSCP given in the packet.**

**I have created the topology and set up the traffic. The packets could be received successfully.**

**I couldn’t finish the rest of the project due to limited time. Sorry.**