DATA STRUCTURES

ASSIGNMENT 4

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Task 1:

Task 2:

```
Expected STDOUT.txt
Student STDOUT.txt 🗐 🕹
1 ABCGEDF
                                                        2 The length of the shortest path between A and A is 0
3 The length of the shortest path between A and B is 1
                                                           The length of the shortest path between A and B is 1
4 The length of the shortest path between A and C is 2
                                                        4 The length of the shortest path between A and C is 2
\left| \text{5} \right| The length of the shortest path between A and D is 7
                                                        |5| The length of the shortest path between A and D is 7
|\mathbf{6}| The length of the shortest path between A and E is \mathbf{5}
                                                        |6| The length of the shortest path between A and E is 5
                                                        7 The length of the shortest path between A and F is 7
  The length of the shortest path between A and F is 7
8 The length of the shortest path between A and G is 3 8 The length of the shortest path between A and G is 3
```

Task 3:

In this task, we load values from "edges.csv" and applying dijkstra algorithim from task 2 to adjacency matrix and then again loading values from "vertices.csv" and printing the path.