

READ ME

Welcome to Dijkstra's Algorithm!

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Language: Python 2.7.15

How to run in terminal:

```
python dijkstras_algorithm.py [INSERT NAME OF CSV FILE HERE].csv
```

Example: `python dijkstras_algorithm.py topology.csv`

Sample Outputs:

```

nicole@DESKTOP-0FT8JFE:/mnt/c/Users/Nicole/Documents/LouisianaTechJuniorYear/2 Computer Networks$ python dijkstras_algorithm.py topology.csv
Please, provide the node's name: z
Shortest path tree for node z:
zy, zyv, zyvw, zyvwX, zyvwXu
Costs of least-cost paths for node z:
u:12, v:6, w:9, x:9, y:2, z:0
nicole@DESKTOP-0FT8JFE:/mnt/c/Users/Nicole/Documents/LouisianaTechJuniorYear/2 Computer Networks$ python dijkstras_algorithm.py topology.csv
Please, provide the node's name: u
Shortest path tree for node u:
uw, uwX, uwXv, uwXvY, uwXvYZ
Costs of least-cost paths for node u:
u:0, v:6, w:3, x:5, y:10, z:12
nicole@DESKTOP-0FT8JFE:/mnt/c/Users/Nicole/Documents/LouisianaTechJuniorYear/2 Computer Networks$

```

```
nicole@DESKTOP-0F78JFE:/mnt/c/Users/Nicole/Documents/LouisianaTechJuniorYear/2 Computer Networks$ python dijkstras_algorithm.py topology.csv
Please, provide the node's name: x
Shortest path tree for node x:
xu, xwu, xwuv, xwuvy, xwuvyz
Costs of least-cost paths for node x:
u:5, v:7, w:4, x:0, y:7, z:9
nicole@DESKTOP-0F78JFE:/mnt/c/Users/Nicole/Documents/LouisianaTechJuniorYear/2 Computer Networks$
```