

Write a C++ program to implement **Dijkstra's Single Source Shortest Path Algorithm** for a given weighted, undirected graph using an **adjacency matrix representation**.

1. **Problem Setup**

- We have **9 vertices** (0 to 8).

**output:**

```
C:\Users\dell\OneDrive\Desktop\MOSCN\Lab tasks\Dijkstra_Single_Source.exe
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Vertex    Distance from Source
0          0
1          4
2         12
3         19
4         21
5         11
6          9
7          8
8         14

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Process exited after 0.6894 seconds with return value 0
Press any key to continue . . .
```