```
D:\Java\jdk1.8.0 102\bin\java.exe "-javaagent:D:\IntelliJ IDEA Community
Edition 2019.2\lambdalib\idea rt.jar=60156:D:\IntelliJ IDEA Community Edition 2019
.2\bin" -Dfile.encoding=UTF-8 -classpath "D:\Java\jdk1.8.0 102\jre\lib\
charsets.jar;D:\Java\jdk1.8.0 102\jre\lib\deploy.jar;D:\Java\jdk1.8.0 102\
jre\lib\ext\access-bridge-32.jar;D:\Java\jdk1.8.0_102\jre\lib\ext\cldrdata.
jar;D:\Java\jdk1.8.0 102\jre\lib\ext\dnsns.jar;D:\Java\jdk1.8.0 102\jre\lib\
ext\jaccess.jar;D:\Java\jdk1.8.0 102\jre\lib\ext\jfxrt.jar;D:\Java\jdk1.8.
0 102\jre\lib\ext\localedata.jar;D:\Java\jdk1.8.0 102\jre\lib\ext\nashorn.
jar;D:\Java\jdk1.8.0 102\jre\lib\ext\sunec.jar;D:\Java\jdk1.8.0 102\jre\lib\
ext\sunjce provider.jar;D:\Java\jdk1.8.0 102\jre\lib\ext\sunmscapi.jar;D:\
Java\jdk1.8.0 102\jre\lib\ext\sunpkcs11.jar;D:\Java\jdk1.8.0 102\jre\lib\ext
\zipfs.jar;D:\Java\jdk1.8.0 102\jre\lib\javaws.jar;D:\Java\jdk1.8.0 102\jre\
lib\jce.jar;D:\Java\jdk1.8.0 102\jre\lib\jfr.jar;D:\Java\jdk1.8.0 102\jre\
lib\jfxswt.jar;D:\Java\jdk1.8.0_102\jre\lib\jsse.jar;D:\Java\jdk1.8.0_102\
jre\lib\management-agent.jar;D:\Java\jdk1.8.0 102\jre\lib\plugin.jar;D:\Java
\jdk1.8.0 102\jre\lib\resources.jar;D:\Java\jdk1.8.0 102\jre\lib\rt.jar;C:\
Users\Ankit Pandita\Desktop\Project2 GraphAlgo\out\production\
Project2_GraphAlgo" edu.uncc.cci.algods.Main
Select the input file from 1, 2, 3, 4, 5 or 6.
Note: File 1, 2 , 3 and 4 have Undirected Graphs and file 5 and 6 have
Directed Graphs.
6
Choose an action:

    Display Shortest Path (using Dijkstra's Algorithm)

2. Display Minimal Spanning Tree (using Kruskal's Algorithm)
3. Exit
1
Number of vertices = 9
Number of edges = 15
Selected Graph is Directed.
Applying Dijkstra's Algorithm:
           В
              С
                   D
                            F
                                    Н
                                        Ι
        Α
                       E
                                G
        0
            2
                0
                    0
                        10
                                45 0
                                        0
Α
                           0
В
        0 0
                3
                    0
                            25 0
                                    45 0
                        0
С
        0 0 0
                    4
                                    0
                                        45
                        0
                            0
                                0
D
        0 0 0
                    0 5
                                    39 0
                            0
                                0
        0 0
              0
                      0
E
                   0
                            6
                                0
                                    0
                                        0
F
        0
           0
                0
                    0
                        0
                            0
                                5
                                    0
                                        0
G
        0
           0
                0
                    0
                        0
                            0
                                0
                                    4
                                        0
                    0
Н
        0
            0
                0
                        0
                            0
                                0
                                    0
                                       3
        2
            0
                0
                    0
                            0
Ι
Source of graph is A
Shortest Path from source:
A -> B = 2
A -> B -> C = 5
A -> B -> C -> D = 9
A -> E = 10
A -> E -> F = 16
A -> E -> F -> G = 21
A -> E -> F -> G -> H = 25
A -> E -> F -> G -> H -> I = 28
Total time taken = 21015 ns
```

Choose an action: 1. Display Shortest Path (using Dijkstra's Algorithm) 2. Display Minimal Spanning Tree (using Kruskal's Algorithm) 3. Exit 3
Process finished with exit code 0