Outputs for Reference

1. Starting the Program.

```
Windows PowerShell
PS C:\Users\hp\Desktop\Maze_Game_Project> g++ .\Maze.cpp
PS C:\Users\hp\Desktop\Maze_Game_Project> .\a.exe

WELCOME TO THE MAZE!!
-> You Can Calculate The Shortest Distance From A Cell To Another
-> You Can Check Via Different Algorithms
-> You Can Change The Contents Of Maze As Well
-> '#' Represents Blocked Cell, Numeric Value Means Weight Of That Cell
-> Weight Of A Cell Can Only Be Between 0 - 9
-> Start By Entering Dimensions Of The Maze (M x N)

Enter Valid Dimensions :
```

2. Entering the Coordinates.

```
Windows PowerShell
                          Enter Valid Dimensions : 6 6
                                   6
                                            4
                                                              6
                                                                        3
                                   6
                                            4
                                                              6
                                                                        9
                                                                        2
                                                               3
                                                                        8
                                                     1
                                                              3
                                                                        4
                          Press 1 To Find Distances.
                          Press 2 To Unblock A Cell
Press 3 To Block A Cell
                          Press 4 To Change Cell Weight
                          Press 5 To Reprint The Matrix
                          Press 6 To Exit
```

3. Finding the Shortest Distance Between Two Points.

```
Enter Valid Choice : 1

Enter Source Coordinates :
Enter Co-ordinates : 1 2

Enter Destination Coordinates :
Enter Co-ordinates : 5 6

Path Is :- (1,2) (1,3) (2,3) (2,4) (3,4) (4,4) (5,4) (5,5) (5,6)
Distance : 21
```

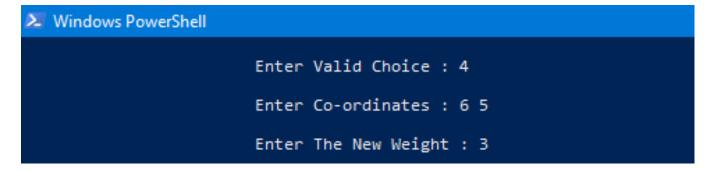
4. Unblocking A Cell.

```
Windows PowerShell
                  Press 1 To Find Distances.
                  Press 2 To Unblock A Cell
                  Press 3 To Block A Cell
                  Press 4 To Change Cell Weight
                  Press 5 To Reprint The Matrix
                  Press 6 To Exit
                  Enter Valid Choice: 2
                  Enter Co-ordinates : 1 1
                  3
                       6
                            4 8 6
                                                 3
                            4 1 6
                  #
                        6
                  #
                        #
                              #
                                    3
                            7
                  2
                        1
                                    1 3
                                    1 3
                  8
                        9
                              #
                              #
                                          7
```

5. Blocking A Cell.

Windows PowerShell Press 1 To Find Distances. Press 2 To Unblock A Cell Press 3 To Block A Cell Press 4 To Change Cell Weight Press 5 To Reprint The Matrix Press 6 To Exit Enter Valid Choice: 3 Enter Co-ordinates : 1 2 3 # 4 8 6 3 4 1 6 # 6 9 # # # 3 # 2 2 1 7 1 3 8 # 1 3 9 4 7 #

6. Changing Cell Weight.



7. Printing the Maze.

Windows PowerShell Press 1 To Find Distances. Press 2 To Unblock A Cell Press 3 To Block A Cell Press 4 To Change Cell Weight Press 5 To Reprint The Matrix Press 6 To Exit Enter Valid Choice : 5 3 # 4 8 6 3 # 6 4 1 6 9 # # # 3 # 2 2 1 1 3 8 8 9 # 1 3 4 # # # 3

8. Exit.

```
Press 1 To Find Distances.
Press 2 To Unblock A Cell
Press 3 To Block A Cell
Press 4 To Change Cell Weight
Press 5 To Reprint The Matrix
Press 6 To Exit

Enter Valid Choice : 6

THANK YOU FOR PLAYING

PS C:\Users\hp\Desktop\Maze_Game_Project>
```