

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      8      6      3
#      6      4      1      6      9
#      #      #      3      #      2
2      1      7      1      3      8
8      9      #      1      3      4
#      #      #      #      7      #

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.

Windows PowerShell

```
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
#	6	4	1	6	9
#	#	#	3	#	2
2	1	7	1	3	8
8	9	#	1	3	4
#	#	#	#	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
#	6	4	1	6	9
#	#	#	3	#	2
2	1	7	1	3	8
8	9	#	1	3	4
#	#	#	#	7	#

6. Changing Cell Weight.

Windows PowerShell

```
Enter Valid Choice : 4
```

```
Enter Co-ordinates : 6 5
```

```
Enter The New Weight : 3
```

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      7      1      3      8
8      9      #      1      3      4
#      #      #      #      3      #
```

8. Exit.

```
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 : 6

THANK YOU FOR PLAYING

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