

## DATA STRUCTURE AND PROGRAM DESIGN LAB-08

Write a program to implement kruskals algorithm in order to find minimum spanning tree of a connected weighted and undirected graph

SAMPLE OUTPUT:

```
80     scanf("%d", &E);
81
82     printf("Enter edges (u v w):\n");
83     for (int i = 0; i < E; i++) {
84         scanf("%d%d%d", &edges[i].u, &edges[i].v, &edges[i].w);
85     }
86
87     KruskalMST(edges, V, E);
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\Ankush\OneDrive\Desktop\DSPD-LAB>  
PS C:\Users\Ankush\OneDrive\Desktop\DSPD-LAB> ./a.exe  
Enter number of vertices: 4  
Enter number of edges: 5  
Enter edges (u v w):  
0 1 10  
0 2 6  
0 3 5  
1 3 15  
2 3 4

Edges in the Minimum Spanning Tree:  
2 -- 3 == 4  
0 -- 3 == 5  
0 -- 1 == 10

Total weight of MST = 19  
PS C:\Users\Ankush\OneDrive\Desktop\DSPD-LAB>