```
26.Implementation of Minimum Spanning Tree using Kruskal Algorithm
#include <stdio.h>
#define MAX 30
int find(int i, int parent[]) {
  while (parent[i])
    i = parent[i];
  return i;
}
int uni(int i, int j, int parent[]) {
  if (i != j) {
    parent[j] = i;
    return 1;
  }
  return 0;
}
int main() {
  int n, i, j, u, v, a, b, min, mincost = 0, ne = 1;
  int cost[MAX][MAX];
  int parent[MAX] = {0};
  printf("Enter number of vertices: ");
  scanf("%d", &n);
  printf("Enter the adjacency matrix (use 0 if no edge):\n");
  for (i = 1; i <= n; i++) {
    for (j = 1; j <= n; j++) {
       scanf("%d", &cost[i][j]);
       if (cost[i][j] == 0)
         cost[i][j] = 999;
    }
```

printf("\nEdges in the Minimum Spanning Tree:\n");

}

```
while (ne < n) {
  for (i = 1, min = 999; i \le n; i++) {
    for (j = 1; j \le n; j++) {
       if (cost[i][j] < min) {
         min = cost[i][j];
         a = u = i;
         b = v = j;
       }
    }
  }
  u = find(u, parent);
  v = find(v, parent);
  if (uni(u, v, parent)) {
    printf("Edge %d: (%d - %d) cost: %d\n", ne++, a, b, min);
    mincost += min;
  }
  cost[a][b] = cost[b][a] = 999; // Remove edge
}
printf("\nMinimum Cost = %d\n", mincost);
return 0;
```

}