```
Program for Kruskal algoritm in c
#include<stdio.h>
  #include<stdlib.h>
  int i,j,k,a,b,u,v,n,ne=1;
  int min,mincost=0,cost[9][9],parent[9];
  int find(int);
  int uni(int,int);
  int main()
  {
        printf("\n\tImplementation of Kruskal's algorithm\n");
        printf("\nEnter the no. of vertices:");
        scanf("%d",&n);
        printf("\nEnter the cost adjacency matrix:\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("The edges of Minimum Cost Spanning Tree are\n");
        while(ne < n)
        {
                for(i=1,min=999;i<=n;i++)
                {
                        for(j=1;j <= n;j++)
```

{

```
if(cost[i][j] < min)
                              {
                                       min=cost[i][j];
                                       a=u=i;
                                       b=v=j;
                              }
                      }
              }
              u=find(u);
              v=find(v);
              if(uni(u,v))
              {
                      printf("%d edge (%d,%d) =%d\n",ne++,a,b,min);
                      mincost +=min;
              }
              cost[a][b]=cost[b][a]=999;
      }
      printf("\n\tMinimum cost = %d\n",mincost);
      getch();
}
int find(int i)
{
      while(parent[i])
      i=parent[i];
      return i;
}
int uni(int i,int j)
{
      if(i!=j)
      {
              parent[j]=i;
```

```
return 1;
}
return 0;
}
```