```
# include < limits h >
# include < stdio h >
# define v9
 Int mindistance (int dist [7, bool sptset [7)
   int min = INT-MAX, min_ index;
   for (int v=0; N ( v; N++)
    The (3/thset [v] == false && dist[v] <= min)
min = dist[v], min_index = v;
  return min_index;
 roid print Solution (int dist [])
  prints ("Vertex 1+1+ Distance from Source\n");
for (int i = 0; i< v; i++)
prints ("90d 1+ 1 + 90d (n"), i, dist[i]);
  soid digkstra (int graph [V][V], int ssc)
   int dist [V];
   bool sptset[v];
  for(int i =0; i <V; i++)
    dist [i] = INT_MAX, sptSet [i]=false;
    dist[sre]=0;
  for (int count = 0; count < V - 1; count ++) {
   int u = min Distance (dist, spt Set);
     spt Set [in] = true;
    for (int v = 0; v < V; v++)
     if (! SptSpt[v] & graph[v][v]&& dist[v]!=INI_MAX
&& dist[v] + graph[v][v] < dist[v])
       dist[v] = dist[v]+graph[v][v];
```

print Solution (dist); int main () int graph[v][v]={{0,4,0,0,0,0,0,8,0}, 84,0,8,0,0,0,0,11,03, 80,8,0,7,0,4,0,0,23, {0,0,7,0,9,14,0,0,03, {0,0,0,9,0,10,0,0,0}, 80,0,4,14,10,0,2,0,03, {0,0,0,0,0,0,2,0,1,63, [8,11,0,0,0,0,0,1,0;73, 20,012,010,016,7,033;

dijketra (graph,0); sreturn o;