Dij'ksteais algorithm to compute shortest path through

Hindude < Sits/stolc++.47
Wing namespace 8td;

#define v9

int min Distance (int dist[7, 5001 sptSet[7)

int min = 500 9999, min-inden;

for (int v=0; v < V; v++)

if I sptset [v] == felse 28 dist[v] (= min)

min = dist [v], min-inden = v;

return min-inden;

(i tri, [] travery tri) at l'Aireq bior

return;

print l'ath (paient, paient (j));

cont- << j days to end;

```
int print dolution (int dist[7, int n, int paunt(7))
      10 = 2K Li
      cout « " Verter \t Distance \t Path " exend!
      for (int 1=1, i2 ); i++)
   cout « "\n" << 12c << "> " << i << "\+ \+"
             << dist(i) << "\+\t" << she grendl;
       pountPath (parent, i).
world dijksta ( int graph [v][v], int sac)
     int dist[V];
      bool spitset [V];
      int pount (V).
      pr (int i=0; i < V; i++)
          parent (0) = -1.
       (1) dist (5) = 9999;
           sptset [i] = false;
     dut [Mc] =0;
```

```
Anusie Hanoj K
forlint count=0; count < V-1; count++)
      înt u = min Distance (dist, 19tset);
       Aptset [u] = tru;
       for ( int v=0; v < V; v++)
             i] (!sptlet(v) && graph[u][v] &&
                 dist[u] + graph [u][v] < dist(v])
               paunt (v) = u;
                 dist [v] = dist [u] + graph [u][v];
   print solution ( dist, v, paunt);
int main ()
    int graph [V][V];
    cout « "Entre the graph: " « end!;
     forlintino; icV; itA)
         for lint 1 =0; j< V; j++)
             an 77 graph (i)(j);
      winter the source: "< cond;
      int see;
      dijkstea ( graph, are);
      utter o:
```