Shikha-N 13 M18CS149

```
finclude < bits/stdc++·h>
using namespace Std;
int as[30][30], source, d[30], P[30];
void dijkstrakly (int ar [][30], intn)g
    int stnj;
 for (int i=0; i<n; i++);
     d[i] = ar [source][i]:
     p [i] = source;
     s [ i] = 0;
 s[source]=1;
  you (int c=0; e < n; c+t){
        int min = 999, u;
      Joe (ints=0; j<n; j++){
          if (d[i]<min & & s[i]!=1){
               min=d[j];
               w=j;
     Jor (int i = 0; i < n; i ++){
        if (min + a Eusti] < dtis) {
            d cij=mintacuzcij;
             p Cij=uj
```

Shikes

int main () f Shilha. N 1@M18cs149 int n; cout << " Finter the no. of sections: "(< end); (バヘン)へ; Court (c" Enler the adjacency matrix (Enter 999 jor infinity): " << end); Ja(int i=0; i<∩; ++) of Joe (int j=0; jer; j++){ نم >> هدنالاز]; but << " Enter the Source vower " < end! cin >> Sousce; Cout << " The shortest paths from router '." << Source <<" are: "Kerdl; diskstrally (ar, n); besterd for (inti=0; i<n; i+t) { int k = 1; while (k! = Source) { cout << k << " = "; k = p [k]; Cout & source « "! cout cc d [i] <= erdi; Leturo;

Ship