**Program No. :**

**Aim : Write a Program to solve the travelling salesman problem.**

domains

A,B=symbol

predicates

distance(symbol,symbol,integer)

route(symbol,symbol,integer)

start

clauses

distance("Delhi","Lucknow",100).

distance("Lucknow","Calcutta",103).

distance("Calcutta","Chennai",200).

distance("Delhi","Indore",130).

distance("Indore","Hyderabad",90).

distance("Hyderabad","Chennai",100).

distance("Delhi","Jaipur",90).

distance("Jaipur","Mumbai",137).

distance("Mumbai","Bangalore",135).

distance("Bangalore","Chennai",200).

start:-

distance(A,B,D),

write("City = ",A," City = ",B," Distance = ",D),nl,fail.

start:-

write("\nEnter the starting city : "),

readln(A),

write("\nEnter the destination city = "),

readln(B),nl,

route(A,B,D),

write("\nDistance from ",A," to ",B," = ",D),nl.

route(A,B,D):-

distance(A,B,D),

write("From City = ",A," To City = ",B,", Distance = ",D),nl.

route(A,B,D):-

distance(A,C,D1),

write("From City = ",A," To City = ",C,", Distance = ",D1),nl,

route(C,B,D2),

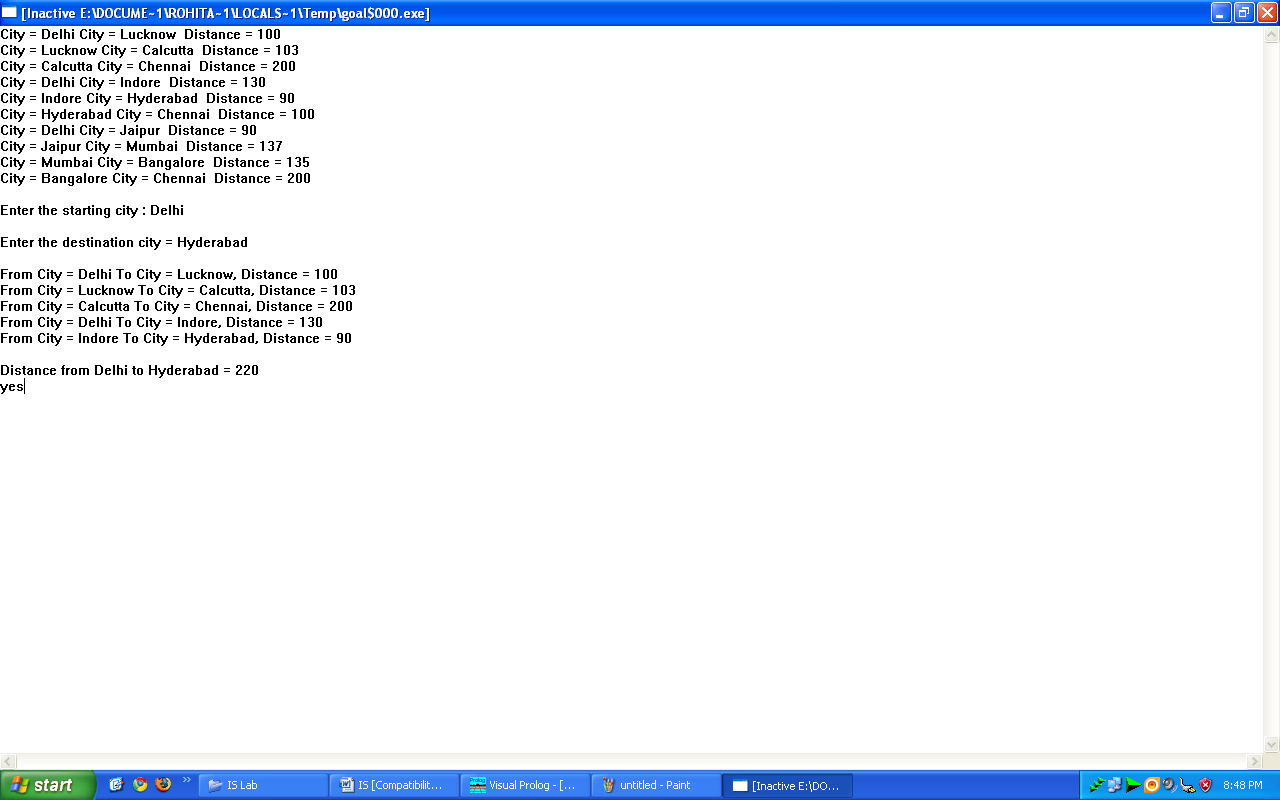
D=D1+D2.

goal

start.

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**OUTPUT**