

18BECE30558

TITHI PATEL

PRACTICAL-11

Program: Write a program to solve travelling salesman problem using Prolog.

domains

town = symbol

distance =

integer

predicates

nondeterm

road(town,town,distance)

nondeterm

route(town,town,distance)

clauses

road("tampa","houston",200).

road("gordon","tampa",300).

road("houston","gordon",100)

.

road("houston","kansas_city",
120).

road("gordon","kansas_city",
130).

route(Town1,Town2,Distance
):

road(Town1,Town2,Distance)

.

route(Town1,Town2,Distance
): road(Town1,X,Dist1),

route(X,Town2,Dist2),

Distance=Dist1+Dist2, !.

OUTPUT:

Files		Edit	Run	Compile	Options	Setup
Editor						Dialog
Line 1	Col 2	E:\PROLOG\PR11.PRO			Indent	I
/*18BECE30558 TITHI PATEL*/						Distance is29100 X=29100
domains						Distance is29700 X=29700
town = symbol						Distance is30300 X=30300
distance = integer						Distance is30900 X=30900
predicates						Distance is31500 X=31500
nondeterm road(town,town,distance)						Distance is32100 X=32100
nondeterm route(town,town,distance)						Distance is32700 X=32700
clauses						
road("tampa","houston",200).						
road("gordon","tampa",300).						
road("houston","gordon",100).						
road("houston","kansas_city",120).						
road("gordon","kansas_city",130).						
Message						Trace
1002 Stack overflow. Re-configure with Options if necessary.						
Press the SPACE bar						
F1:Error explanation F2-Save F3-Load F5-Zoom F6-Next F10-Continue						