Artificial Intelligence

Assignment 10

Meet Mehta

20BCP126

Div2 G4

Code: (For box solver problem using Prolog)

getbox(1). getbox(2). getbox(3). getbox(4). getbox(5).

box(1, black, 3).

box(2, black, 1).

box(3, white,1).

box(4, black, 2).

box(5, white, 3).

owners(A, B, C, D, E) :-

getbox(A), getbox(B), getbox(C), getbox(D), getbox(E),

       A\=B,A\=C,A\=D,A\=E,

       B\=C,B\=D,B\=E,

       C\=D,C\=E,
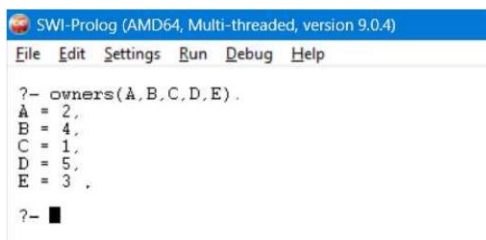
       D\=E,

       box(A,ColorA,_),box(B,ColorA,_),

       box(D,ColorD,_),box(E,ColorD,_),

       box(C,_,SizeC), box(D,_,SizeC),

       box(E,_,SizeE),box(B,_,SizeB),

       SizeE<SizeB.

Output: