clc;clear

Outlook=[1,1,3,2,2,2,3,1,1,2,1,3,3,2]';

Temperature=[1,1,1,2,3,3,3,2,3,3,2,2,1,2]';

Humidity=[1,1,1,1,2,2,2,1,2,2,2,1,2,1]';

Windy=[0,1,0,0,0,1,1,0,0,0,1,1,0,1]';

PlayGolf=[0,0,1,1,1,0,1,0,1,1,1,1,1,0]';

temp=[Outlook Temperature Humidity Windy PlayGolf];

yes=find(temp(:,5)==1);

no=find(temp(:,5)==0);

[a,b]=size(yes);

p\_yes=a/14;

p\_no=(15-a)/14;

sunny\_yes=size(find(temp(yes,1)==1),1) %2

sunny\_no=size(find(temp(no,1)==1),1) %3

hot\_yes=size(find(temp(yes,2)==1),1) %2

hot\_no=size(find(temp(no,2)==1),1)

high\_yes=size(find(temp(yes,3)==1),1)

high\_no=size(find(temp(no,3)==1),1)

strong\_yes=size(find(temp(yes,4)==1),1)

strong\_no=size(find(temp(no,4)==1),1)

p\_x\_yes=sunny\_yes\*hot\_yes\*high\_yes\*strong\_yes/(a\*a\*a\*a)

p\_x\_no=sunny\_no\*hot\_no\*high\_no\*strong\_no/((14-a)^4)

ifp\_x\_yes\*p\_yes>p\_x\_no\*p\_no

disp('yes')

else

disp('no')

end

