**Implement N Queen's problem using Back Tracking**

#include<stdio.h>

#include<conio.h>

#include<math.h>

int x[20],count=1;

void queens(int,int);

int place(int,int);

void main()

{

int n,k=1;

clrscr();

printf("\n enter the number of queens to be placed\n");

scanf("%d",&n);

queens(k,n);

}

void queens(int k,int n)

{

int i,j;

for(j=1;j<=n;j++)

{

if(place(k,j))

{

x[k]=j;

if(k==n)

{

printf("\n %d solution",count);

count++;

for(i=1;i<=n;i++)

printf("\n \t %d row <---> %d

  column",i,x[i]);

getch();

}

else

queens(k+1,n);

}

}

}

int place(int k,int j)

{

int i;

for(i=1;i<k;i++)

if((x[i]==j) || (abs(x[i]-j))==abs(i-k))

return 0;

return 1;

}

Output :

