PROGRAM:-

```
#include<stdio.h>
#include<conio.h>
void nqueens(int n)
int k,x[20];
k=1;
x[k]=0;
while(k!=0)
 {
     x[k]++;
   while(place(x, k)!=1 && x[k] \le n)
    x[k]++;
    if(x[k] \le n)
         if(k==n)
         printf("\nSolution is\n");
         printf("Queen\t\tPosition\n");
         for(k=1;k<=n;k++)
         printf("%d\t\t%d\n", k,x[k]);
        else
         k++;
```

```
x[k]=0;
       else
int place(int x[], int k)
int i;
for(i=1;i<=k-1;i++)
    if(i+x[i]==k+x[k]||i-x[i]==k-x[k]||x[i]==x[k])
    return 0;
    return 1;
void main()
    int n;
    printf("Enter the number of Queens\n");
    scanf("%d", &n);
    nqueens(n);
    getch();
```

OUTPUT:-

```
Enter the number of Queens
4
Solution is
               Position
Queen
               2
2
3
4
                4
                1
                3
Solution is
Queen
               Position
1
               3
2
               1
                4
                2
...Program finished with exit code 0
Press ENTER to exit console.
```