

```
1 //to print a circular array
2 import java.util.Scanner;
3 class
4 circular_array
//class starts
5 {
6     public static void
7 main()
8     {
9         Scanner sc=new Scanner(System.in);
10        System.out.println("Enter the number of rows and columns");
11        int n=sc.nextInt();
12        int a[][]=new int[n][n];
13        int p=0,y=-1,z=1,r=n,c=n-1,k=1;
14        //initialising necessary variables
15        while(k<=(n*n))
16        //for creating circular array
17        {
18            for(int i=0;i<r;i++)
19            {
20                y=y+z;
21                a[p][y]=k++;
22            }
23            for(int j=0;j<c;j++)
24            {
25                p=p+z;
26                a[p][y]=k++;
27            }
28            r--;
29            c--;
30            z=-z;
31        }
32        System.out.println("Circular array");
33        for(int i=0;i<n;i++)
34        {
35            for(int j=0;j<n;j++)
36            System.out.print(a[i][j]+\t");
37        }
38        //to print circular array
39        System.out.println();
40    }
41 }
42 //main ends
43 }
44 //class ends
```