

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