```
/**
2
     A PROGRAM TO INPUT A NUMBER (n) AND FIND (n^2).
3
     ARRANGE NUMBERS IN A SPIRAL FORM FROM (N^2 TO 1) IN A DDA.
4
5
    //SUCHIT TE XII A
6
   import java.util.*;
7
   public class DDASpiral
8
9
        public static void main()
10
11
            Scanner sc=new Scanner (System.in);
12
            System.out.println("A PROGRAM TO INPUT A NUMBER (n) AND FIND (
13
   n^2)./n"+
                                  "ARRANGE NUMBERS IN A SPIRAL FORM FROM (N^2
14
     TO 1) IN A DDA.");
            int n=sc.nextInt();
15
            System.out.println("ENTERED NUMBER : "+n);
16
            int num =0;
17
            num=n*n;
18
            System.out.println("UPPER LIMIT OF SPIRAL : "+num);
19
            System.out.println("SPIRAL MATRIX");
20
            int count = num;
21
22
            int spiral[][]=new int[n][n];
            //LOOP TO STORE ELEMENTS IN DDA
23
            for(int i=0;i<n;i++)</pre>
24
25
            {
                 //for top part
26
                 for(int j=i;j<n-i;j++)</pre>
27
28
29
                     spiral[i][j]=count;
                     count--;
30
                 }
31
                 //for right part
32
                 for(int j=i+1; j<n-i; j++)</pre>
33
34
                     spiral[j][n-1-i]=count;
35
36
                     count --;
37
                 }
                 //for bottom part
38
                 for(int j=n-2-i; j>i; j--)
39
40
                     spiral[n-1-i][j]=count;
41
                     count--;
42
43
                 //for left part
44
                 for(int j=n-1-i; j>i; j--)
45
46
47
                     spiral[j][i]=count;
                     count--;
48
49
                 if(count==0)
50
51
                 {
                     break:
```

```
Class DDASpiral - suchit-XII-A (continued)
                                                                                   2/2
             }
//OUTPUT
54
55
             for(int i=0;i<n;i++)</pre>
56
57
                  for(int j=0;j<n;j++)</pre>
58
59
                       System.out.print(spiral[i][j]+" ");
60
61
                  System.out.println();
62
             }
63
        }
64
65
66
```