

```

package diamond;
import java.util.Scanner;
/**
 *
 * @author Widya
 */
public class Diamond
{
    public static void main(String[] args)
    {

        Scanner x = new Scanner (System.in);

        int i,n,j,k;

        System.out.print("Input n : ");
        n=x.nextInt();

        //diamond1
        {
            for (i=1;i<=n;i++)
            {
                for (j=i;j<=(n-1);j++)
                {
                    System.out.print(" ");
                }
                for (j=1;j<=i;j++)
                {
                    System.out.print(j);
                }
                for (j=i-1;j>=1;j--)
                {
                    System.out.print(j);
                }
                System.out.println("");
            }

            for (i=n-1;i>=1;i--)
            {
                for (j=i;j<=(n-1);j++)
                {
                    System.out.print(" ");
                }
                for (j=1;j<=i;j++)
                {
                    System.out.print(j);
                }
                for (j=i-1;j>=1;j--)
                {
                    System.out.print(j);
                }
                System.out.println("");
            }
        }
    }
}

```

```
//diamond2
{
    for (i=1;i<=n;i++)
    {
        for (j=i;j<=(n-1);j++)
        {
            System.out.print(" ");
        }
        for (j=1;j<=i;j++)
        {
            System.out.print(i);
        }
        for (j=i-1;j>=1;j--)
        {
            System.out.print(i);
        }
        System.out.println("");
    }

    for (i=n-1;i>=1;i--)
    {
        for (j=i;j<=(n-1);j++)
        {
            System.out.print(" ");
        }
        for (j=1;j<=i;j++)
        {
            System.out.print(i);
        }
        for (j=i-1;j>=1;j--)
        {
            System.out.print(i);
        }
        System.out.println("");
    }
}
```

```
//diamond3
{
    for (i=1;i<=n;i++)
    {
        for (j=i;j<=(n-1);j++)
        {
            System.out.print(" ");
        }
        for (j=n;j>n-i;j--)
        {
            System.out.print(j);
        }
        for (j=(n-i)+2;j<=n;j++)
        {
            System.out.print(j);
        }

        System.out.println("");
    }
}
```

```

    }

    for (i=n-1;i>=1;i--)
    {
        for (j=i;j<=(n-1);j++)
        {
            System.out.print(" ");
        }
        for (j=n;j>=(n-i)+1;j--)
        {
            System.out.print(j);
        }
        for (j=(n-i)+2;j<=n;j++)
        {
            System.out.print(j);
        }
        System.out.println("");
    }
}

//diamond4
{
    for (i=1;i<=n;i++)
    {
        for (j=i;j<=(n-1);j++)
        {
            System.out.print(" ");
        }
        for (j=(n-i)+1;j<=n;j++)
        {
            System.out.print(j);
        }
        for (j=n-1;j>=(n-i)+1;j--)
        {
            System.out.print(j);
        }
        System.out.println("");
    }
}

for (i=n-1;i>=1;i--)
{
    for (j=i;j<=(n-1);j++)
    {
        System.out.print(" ");
    }
    for (j=(n-i)+1;j<=n;j++)
    {
        System.out.print(j);
    }
    for (j=n-1;j>=(n-i)+1;j--)
    {
        System.out.print(j);
    }
    System.out.println("");
}

```

}

}

}

Projects

Files

Services

Navigator

Output - Diamond (run) X

```
run:
Input n : 6
1
121
12321
1234321
123454321
12345654321
123454321
1234321
12321
121
1
1
222
33333
4444444
555555555
66666666666
555555555
4444444
33333
222
1
6
656
65456
6543456
654322456
65432123456
654322456
6543456
65456
656
6
6
565
45654
3456543
234565432
12345654321
234565432
3456543
45654
565
6
BUILD SUCCESSFUL (total time: 2 seconds)
```