

## 1)Pattern for INEURON

```
public class ineuron {

    public static void main(String args[])
    {
        int i, j;
        for(i=1;i<=7;i++)
        {if(i==1||i==7)
            for(j=1;j<=7;j++)
            {
                if (j != 7)
                    System.out.print("* ");
                else
                    System.out.print("*");
            }
        else
        {
            for(j=1;j<=6;j++)
                System.out.print(" ");
            System.out.print("*");
        }
        System.out.print(" ");
        if(i==1||i==7)
        {
            System.out.print("*");
            for (j = 1; j <= 11; j++)
                System.out.print(" ");
            System.out.print("*");
        }
        else
        {
            for (j = 1; j <= 6; j++)
                System.out.print(" ");
            System.out.print("*");
            for (j = 1; j <= 2 * (i - 1) - 1; j++)
                System.out.print(" ");
            System.out.print("*");
            for(j=11-2*(i-1);j>=1;j--)
                System.out.print(" ");
            System.out.print("*");
        }
        System.out.print(" ");
        if(i==1||i==4||i==7)
            for(j=1;j<=7;j++)
                if(j!=7)
                    System.out.print("* ");
                else
                    System.out.print("*");
        else
            System.out.print("*");
        System.out.print(" ");

        if(i!=7) {
            if (i == 1 || i == 4)
            {
                System.out.print("*");
                for (j = 1; j <= 11; j++) {
                    System.out.print(" ");
                }
            }
        }
    }
}
```

```

        System.out.print("*");
    }

    else{
        for (j = 1; j <= 12; j++)
            System.out.print(" ");
        System.out.print("*");
        for (j = 1; j <= 11; j++) {
            System.out.print(" ");
        }

        System.out.print("*");
    }
}
else
{
    for(j=1;j<=7;j++)
        if(j!=7)
            System.out.print("* ");
        else
            System.out.print("*");
}

System.out.print(" ");
if(i==1||i==4)
    for(j=1;j<=4;j++)

        if(j!=4)
            System.out.print("* ");
        else
            System.out.print("* ");

else if(i==2||i==3)
{
    System.out.print("*");
    for (j = 1; j <= 7; j++)
        System.out.print(" ");
    System.out.print("*");
}
else
{
    System.out.print("*");
    for(j=1;j<=2*i-9;j++)
        System.out.print(" ");
    System.out.print("*");
    for(j=2*i-7;j<=8;j++)
        System.out.print(" ");
}

System.out.print(" ");
if(i==1||i==7)
    for(j=1;j<=7;j++)
        if(j!=7)
            System.out.print("* ");
        else
            System.out.print("*");
else
{
    System.out.print("*");
}

```

```

        for (j=1;j<=11;j++)
            System.out.print(" ");
        System.out.print("*");
    }

    System.out.print("  ");
    if (i==1 || i==7)
    {
        System.out.print("*");
        for (j = 1; j <= 11; j++)
            System.out.print(" ");
        System.out.print("*");
    }
    else
    {
        System.out.print("*");
        for (j = 1; j <= 2 * (i - 1) - 1; j++)
            System.out.print(" ");
        System.out.print("*");
        for (j=11-2*(i-1);j>=1;j--)
            System.out.print(" ");
        System.out.print("*");
    }
    System.out.println();
}
}
}

```

OUTPUT:

```

* * * * * * *      * * * * * * * *      * * * * *      * * * * * * * *      *
  *      * *      * *      *      * *      * *      * * *      *
    *      * *      * *      *      * *      * *      * * *      *
      *      * *      * * * * * * * *      *      * * * * *      * *      *
        *      *      * * *      *      * * *      *      * *      * * *
          *      *      * * *      *      * * *      *      * *      * *
            * * *      *      * * * * * * * * * * * * * *      * * * * * * *
* * * * * * * *      * * * * * * * * * * * * * *      *      * * * * * * *      *

```

2) Write a program to print Pattern 1 1 1 1

2 2 2 2

3 3 3 3

4 4 4 4

```

import java.util.Scanner;

public class pattern5 {
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);

        int n = sc.nextInt();
    }
}

```

```

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

```

### Output:

```

5
1 1 1 1
2 2 2 2
3 3 3 3
4 4 4 4

Process finished with exit code 0

```

### 3) Write a program to print pattern

```

import java.util.Scanner;

public class pattern6 {
    public static void main(String[] args)
    {
        Scanner sc= new Scanner(System.in);
        int n=sc.nextInt();
        {
            for(int i=0;i<n;i++)
            {
                for(int j=0;j<n;j++)
                {
                    if(i==0 || j==0 || i==n-1 || j==n-1 || i+j<=(n-2)/2 ||
j-i>=(n-2)/2)
                        System.out.print("*");
                    else
                        System.out.print(" ");
                }
                System.out.println();
            }
        }
    }
}

```

## Output:

```
14
*****
***** *****
***** *****
**** *****
*** *****
** *****
* *****
* *****
* *****
* *****
* *****
* *****
*****

Process finished with exit code 0
```

## 4) Write a program to print pattern

```
import java.util.Scanner;

public class pattern7 {
    public static void main(String[] args)
    {
        Scanner sc= new Scanner(System.in);
        int n= sc.nextInt();
        {
            for(int i=0;i<n;i++)
            {
                for(int j=0;j<n;j++)
                {
                    if(i==n-1 || i==n-2 || i-j >= (n-1)/2 || i+j>=n+5)
                        System.out.print("*");
                    else
                        System.out.print(" ");
                }
                System.out.println();
            }
        }
    }
}
```

### Output:

```
14

      |

*      *
**     **
***    ***
****   ****
*****  *****
*****  *****
*****  *****
*****  *****
*****  *****

Process finished with exit code 0
```

### 5) Write a program to print pattern

```
import java.util.Scanner;

public class pattern8 {
    public static void main(String[] args)
    {
        Scanner sc= new Scanner(System.in);
        int n= sc.nextInt();
        {
            for(int i=0;i<n;i++)
            {
                for(int j=0;j<n;j++)
                {
                    if (i==0 || j==0 || i==n-1 || i+j<=(n-2)/2 || i-j>=(n-
2)/2)
                        System.out.print("*");
                    else
                        System.out.print(" ");
                }
                System.out.println();
            }
        }
    }
}
```

## Output:

```
14
*****
*****
*****
****
***
**
*
**
***
****
*****
*****
*****
*****
```

```
Process finished with exit code 0
```