

1. Write a program(WAP) to print INEURON using pattern programming logic.

Source Code:

```
public class Ineuron
{
    public static void main(String[] args)
    {
        int n = 7;
        for (int i = 0; i < n; i++)
        {
            for (int j = 0; j < n; j++)
            {
                if (i == 0 || i == n - 1 || j == ((n - 1) / 2))
                {
                    System.out.print("*");
                }
                else
                {
                    System.out.print(" ");
                }
            }
            System.out.print(" ");
            for (int j = 0; j < n; j++)
            {
                if (j == 0 || j == n - 1 || i == j)
                {
                    System.out.print("*");
                }
                else
                {
                    System.out.print(" ");
                }
            }
            System.out.print(" ");
            for (int j = 0; j < n; j++) {
                if (i == 0 || j == 0 || i == (n-1)/2 || i==n-1)
                {
                    System.out.print("*");
                }
                else
                {
                    System.out.print(" ");
                }
            }
            System.out.print(" ");
            for (int j = 0; j < n; j++)

            if (j == 0 && i!=(n-1) || j == n - 1 && i!=(n-1) || i == n-1 && j!=0 && j!=n-1)
```

```

        {
            System.out.print("*");
        } else
        {
            System.out.print(" ");
        }
    }
    System.out.print("  ");
    for (int j = 0; j < n; j++)
    {
        if (j == 0 || i == 0 && j!=(n-1) || j==(n-1) && i!=0
&& i!=(n-1)/2 || i==(n-1)/2 && j!=(n-1))
        {
            System.out.print("*");
        } else
        {
            System.out.print(" ");
        }
    }
    System.out.print("  ");
    for (int j = 0; j < n; j++)
    {
        if (j == 0 && i!=0 && i!=(n-1) || i==0 && j!=0 &&
j!=(n-1) || j == (n - 1) && i!=0 && i!=(n-1) || i==(n-1) && j!=0 &&
j!=(n-1))
        {
            System.out.print("*");
        } else
        {
            System.out.print(" ");
        }
    }
    System.out.print("  ");
    for (int j = 0; j < n; j++)
    {
        if (j == 0 || j == n - 1 || i == j)
        {
            System.out.print("*");
        } else
        {
            System.out.print(" ");
        }
    }
    System.out.println();
}
}

```

2. Write a program to print

```
1 1 1 1
2 2 2 2
3 3 3 3
4 4 4 4
```

Source Code:

```
package ineuron;
public class Pattern2
{
    public static void main(String[] args)
    {
        int n = 4;
        for (int i = 1; i <=n; i++)
        {
            for (int j = 1; j <= n; j++)
            {
                System.out.print(i);
            }
            System.out.println();
        }
    }
}
```

3. WAP to print

```

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

```

Source Code:

4. WAP to print



Source Code:

```
public class Pattern4 {  
  
    public static void main(String[] args) {  
        int n = 14;  
        for (int i = 0; i < n; i++)  
        {  
  
            for (int j = 0; j < n; j++)  
            {  
  
                if (i == n-1 && j==0||j==n-1 && i==n-1  
                    ||i-j>=(n-1)/2||i+j>=(n-1)+(n-1)/2)  
                {  
                    System.out.print("*");  
                }  
                else  
                {  
                    System.out.print(" ");  
                }  
            }  
            System.out.println();  
        }  
    }  
}
```

5. WAP to print

```
*****
*****
*****
*****
****
***
**
*
**
***
****
*****
*****
*****
*****
*****
```

Source Code:

```
public class Pattern5
{
    public static void main(String[] args)
    {
        int n = 14;
        for (int i = 0; i < n; i++)
        {
            for (int j = 0; j < n; j++)
            {
                if (i == n-1 || i==0 ||
                    i+j<=(n-1)/2 || i-j>=(n-1)/2)
                {
                    System.out.print("*");
                }
                else
                {
                    System.out.print(" ");
                }
            }

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