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ASSIGNMENT NO. 01

Q1 Write a program (WAP) to print INEURON using pattern programming logic.

```
package identifier;

public class Q1 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int n = 7;
		for(int i=0; i<n; i++)
		{
			//I
			for(int j=0; j<n; j++)
			{
				if(i==0 && j<=(n-1)/2 ||
				   i==(n-1) && j<=(n-1)/2 ||
				   j==n/4
				  )
				{
					System.out.print("*");
				}
				else
				{
					System.out.print(" ");
				}
			}

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

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

			//U
			for(int j=0; j<n; j++)
			{
				if(j==0 && i<(n-1)||
				   j==(n-1)/2 && i<(n-1) ||
				   i==n-1 && j<((n-1)/2) && j>0
				  )
				{
					System.out.print("*");
```

```
                        }
                        else
                        {
                                System.out.print(" ");
                        }
                }

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

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

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

    }

}
```

Output:

Q2 Write a program to print

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

Ans:

```
package identifier;

public class Q2 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		for(int i=1;i<=4;i++)
		{
			for(int j=1;j<=4;j++)
			{
				System.out.print(i);
			}
		System.out.println();

		}
	}

}
```

Output:

```
1111
2222
3333
4444
```

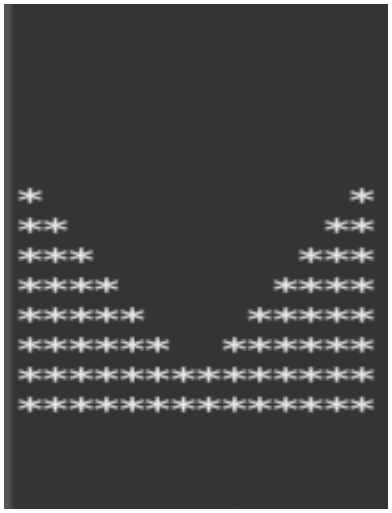
3. WAP to print

Ans:
```
package identifier;

public class Q3 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int n = 14;
		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-1)/2 || j-i>=(n-1)/2
				  )
				{
					System.out.print("*");
				}
				else
				{
					System.out.print(" ");
				}
				}
		System.out.println();
		}

	}

}
```

Output:

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

4. WAP to print



Ans:
```
package identifier;

public class Q4 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int n = 14;
		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-1) +((n-1)/2) ||
				    j==0 && i>=(n-1)/2 ||
				    j==n-1 && i>=(n-1)/2
				  )
				{
					System.out.print("*");
				}
				else
				{
					System.out.print(" ");
				}
				}
		System.out.println();
		}
	}

}
```

Output:

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

5. WAP to print

Ans:

```
package identifier;

public class Q5 {

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

	}

}
```

Output:

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