

ASSIGNMENT-1

S.S.SANDEEP

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

Code:

```
package assignment1;
```

```
import java.util.Scanner;
```

```
public class Ineuron_pattern {
```

```
    public static void main(String[] args) {
```

```
        int i,j,n;
```

```
        Scanner sc=new Scanner(System.in);
```

```
        System.out.println("Enter the number");
```

```
        n=sc.nextInt();
```

```
        for(i=0;i<n;i++) {
```

```
            for(j=0;j<n;j++) { //I
```

```
                if(i==0 || i==(n-1) || j==n/2)
```

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

```
            else
```

```
                System.out.print(" ");
```

```
        }
```

```
        System.out.print(" ");
```

```
        for(j=0;j<n;j++) { //N
```

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

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

```
            else
```

```
                System.out.print(" ");
```

```
        }
```

```
        System.out.print(" ");
```

```
        for(j=0;j<n;j++) { //E
```

```
            if(i==0 || i==n/2 || i==(n-1) || j==0)
```

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

```
            else
```

```
                System.out.print(" ");
```

```
        }
```

```
        System.out.print(" ");
```

```
        for(j=0;j<n;j++) { //U
```

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

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

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

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

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

System.out.print(" ");

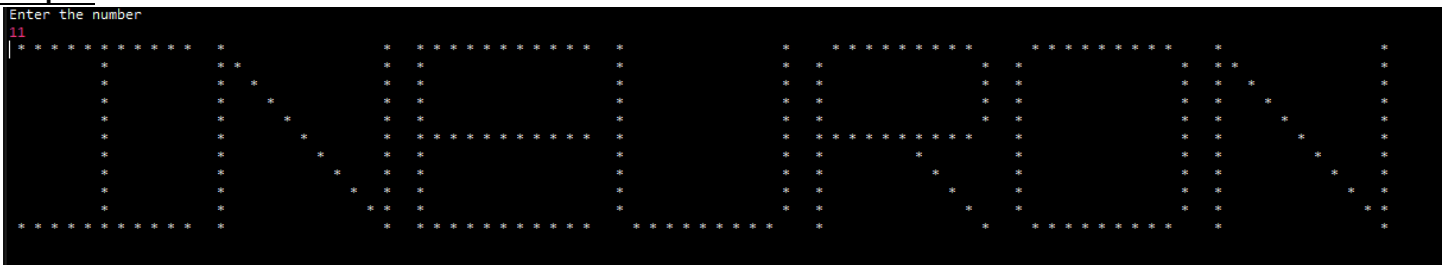
for(j=0;j<n;j++) { //O
    if(i==0 && j>0&& j<(n-1) || j==0 && i>0 && i<(n-1) || j==(n-1) && i>0 && i<(n-1) ||
i==(n-1) && j>0 && j<(n-1) )
        System.out.print(" *");

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

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

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

Output:



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2)Write a program to print

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

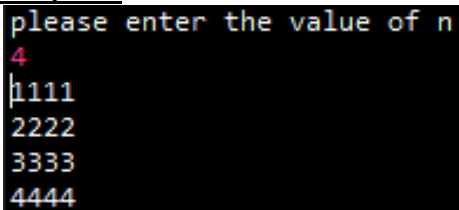
Code:

```
package assignment1;

import java.util.Scanner;

public class Pattern1 {
    public static void main(String[] args) {
        int i,j,n;
        Scanner sc=new Scanner(System.in);
        System.out.println("please enter the value of n");
        n=sc.nextInt();
        for(i=1;i<=n;i++) {
            for(j=1;j<=n;j++) {
                System.out.print(i);
            }
            System.out.println();
        }
    }
}
```

Output:

A screenshot of a terminal window showing the output of the Java program. The text is as follows:

```
please enter the value of n
4
1111
2222
3333
4444
```

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3. WAP to print



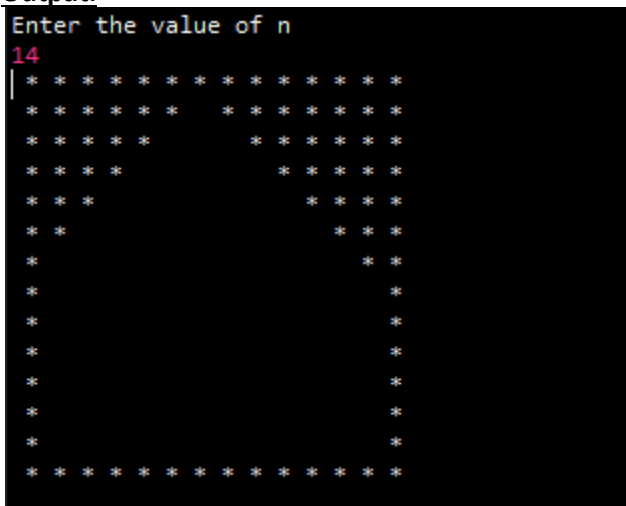
Code:

```
package assignment1;
```

```
import java.util.Scanner;
```

```
public class Pattern2 {  
    public static void main(String [] args) {  
        int i,j,n;  
        Scanner sc =new Scanner(System.in);  
        System.out.println("Enter the value of n");  
        n=sc.nextInt();  
        for(i=0;i<n;i++) {  
            for(j=0;j<n;j++) {  
                if(i==0 || i==(n-1) || j==0 || j==(n-1) || j<n/2 && (i+j)<(n/2) || j>=(n/2-2) && j-i>=(n/2-1) )  
                    System.out.print(" *");  
                else  
                    System.out.print(" ");  
            }  
            System.out.println();  
        }  
    }  
}
```

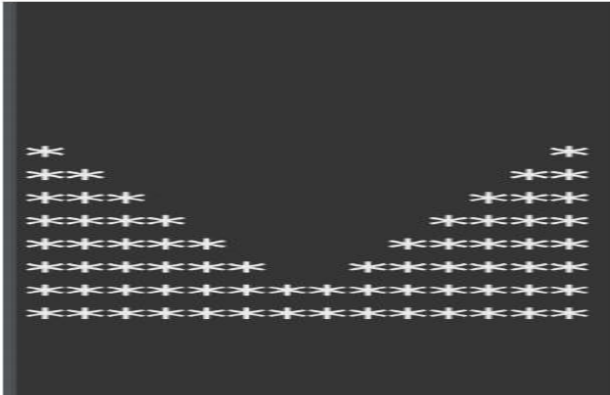
Output:



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4. WAP to print



Code:

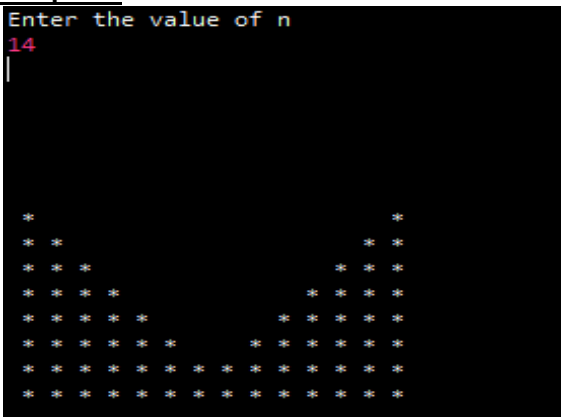
```
package assignment1;

import java.util.Scanner;

public class Pattern3 {

    public static void main(String[] args) {
        int i,j,n;
        Scanner sc= new Scanner(System.in);
        System.out.println("Enter the value of n");
        n=sc.nextInt();
        for(i=0;i<n;i++) {
            for(j=0;j<n;j++) {
                if(j<=n/2 && (i-j)>=(n/2-1) || j>=n/2 && (i+j)<=2*(n-1) && i>=n/2-1 &&
(i+j)>=(3*n/2-2))
                    System.out.print(" *");
                else
                    System.out.print(" ");
            }
            System.out.println();
        }
    }
}
```

Output:



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5. WAP to print



Code:

```
package assignment1;

import java.util.Scanner;

public class Pattern4 {
    public static void main(String [] args) {
        int i,j,n;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the value of n");
        n=sc.nextInt();
        for(i=0;i<n;i++) {
            for(j=0;j<n;j++) {
                if(i<=(n/2-1) && (i+j)<=(n/2-1) || i>=n/2-1 && (i-j)>=(n/2-1) && j<=n/2 ||
i==0 || i==(n-1))
                    System.out.print(" *");
                else
                    System.out.print("  ");
            }
            System.out.println();
        }
    }
}
```

Output:

