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

```
public class Inueron{
    public static void main(String args[]){
        //java program to print INUERON
        int n=10;
        for(int i=0;i<n;i++){</pre>
             for(int j=0;j<n;j++){</pre>
                 if(i=0||i=n-1||j==n/2){
                     System.out.print("*");
                 }else{
                     System.out.print(" ");
                 }
             }
             System.out.print(" ");
             for(int j=0;j<n;j++){</pre>
                 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++){</pre>
                 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++){</pre>
                 if(i==0||i==n/2||i==n-1||j==0){
                     System.out.print("*");
                 }else{
                     System.out.print(" ");
```

```
}
             }
            System.out.print(" ");
            for(int j=0;j<n;j++){</pre>
                 if((j==0 \&\& i>0) ||(i==0 \&\&j>0 \&\& j<3*n/4)||(j==3*n/4)||
&& i>0 && i<n/2)||(i==n/2 && j>0 && j<3*n/4)||(i==j && i>n/2 &&
j>n/2)){
                     System.out.print("*");
                 }else{
                     System.out.print(" ");
                 }
            }
            System.out.print(" ");
            for(int j=0;j<n;j++){</pre>
                 if((i==0 && j>0 && j<3*n/4) || (j==0 && i>0 && i<n-
1) ||(j=3*n/4 \&\& i>0 \&\& i< n-1)||(i=n-1 \&\& j>0 \&\& j<3*n/4)){
                     System.out.print("*");
                 }else{
                     System.out.print(" ");
                 }
            }
             System.out.print(" ");
            for(int j=0;j<n;j++){</pre>
                 if(j==0||j==n-1||i==j){
                     System.out.print("*");
                 }else{
                     System.out.print(" ");
                 }
             }
            System.out.print(" ");
            System.out.println();
        }
    }
}
```

```
$ java Inueron.java
2. Write a program to print
1111
2222
3333
4444
public class PatternTwo {
    public static void main(String args[]){
         int n=4;
         for(int i=1;i<=n;i++){</pre>
             for(int j=1;j<=n;j++){</pre>
                 System.out.print(i);
```

```
$ java PatternTwo.java
1111
2222
3333
4444
```

}

}

}

System.out.println();

```
3. WAP to print
public class PatternThree {
                    public static void main(String args[]){
                                        int n=15;
                                       for(int i=0;i<n;i++){</pre>
                                                           for(int j=0;j<n;j++){</pre>
                                                                               if((i==0)||(i==n-1)||(j==0)||(j==n-1)||(i+j<=n/2)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)||(j==n-1)|||(j==n-1)||(j==n-1)|||(j==n-1)|||(j==n-1)|||(j==n-1)|||(j==n-1)
i >= n/2)
                                                                                                   System.out.print("*");
                                                                               }else{
                                                                                                   System.out.print(" ");
                                                                               }
                                                            }
                                                           System.out.println();
                                        }
                    }
}
                        java PatternThree.java
4. WAP to print
public class PatternFour {
                    public static void main(String args[]) {
                         int n=15;
                        for(int i=0;i<n;i++){</pre>
                                       for(int j=0;j<n;j++){</pre>
                                                           if((j==0 \&\& i>=n/2)||(j==n-1\&\& i>=n/2)||(i==n-1)||(i=n-1)||
j>=n/2)||(i+j>=(n-1+(n-1)/2))){}
```

System.out.print("*");

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

⇒ java PatternFour.java

5. WAP to print
public class PatternFive {
   public static void main(String args[]) {
       int n=15;
       for(int i=0;i<n;i++){</pre>
           for(int j=0;j<n;j++){</pre>
              1)/2)){
                  System.out.print("*");
              }else{
                  System.out.print(" ");
              }
           System.out.println();
       }
   }
}
```
