Assignment: 1

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

Program:

```
package in.java_practice;

public class Ineuron_name {

	public static void main(String[] args) {
		int n=10;

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

        }

}
package in.java_practice;

public class Ineuron_name {

public static void main(String[] args) {
        int n=10;

        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("  ");
```

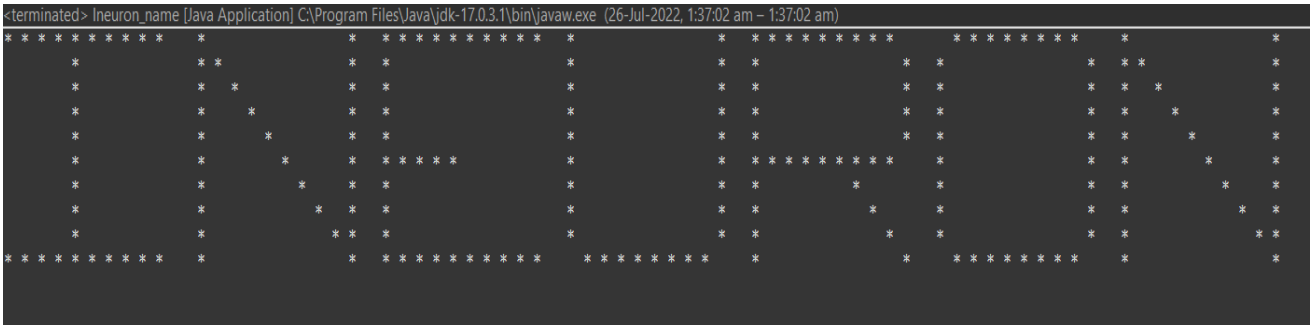
```
                }
            }
            System.out.print("  ");
            for (int j = 0; j < n; j++) {
   if (j == 0 || j == n - 1 || i==j) {
      System.out.print(" *");
   }else {
      System.out.print("  ");
   }
}
            System.out.print("  ");
            for (int j = 0; j < n;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

}

}
```

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

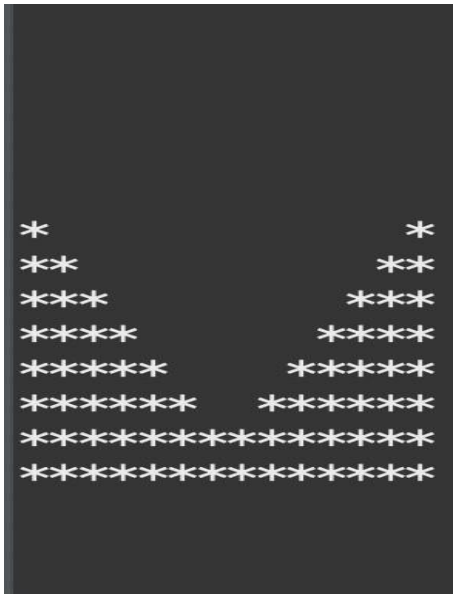
Program:

```
package in.java_practice;


public class Number_Pattern {


public static void main(String[] args) {


        int n=5;

        for(int i=1;i<n;i++) {
```

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


}
}
```

Output:

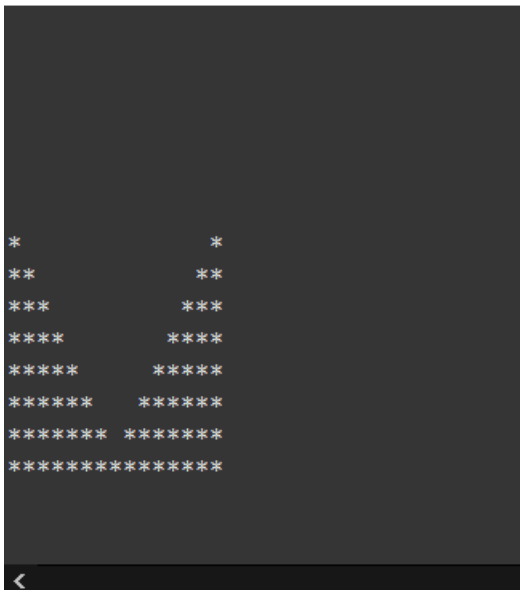
3. WAP to print



Program.

```
package in.java_practice;

public class Solid_Two_Triangle {

public static void main(String[] args) {



	int n=15;
	for(int i=0;i<n;i++) {
		for(int j=0;j<n;j++) {
			if(i==n-1 || j==0 && i>=(n-1)/2 || i-j>=(n-1)/2 || j==n-1 && i>=(n-1)/2
|| i+j>=(n-1)+(n-1)/2) {
				System.out.print("*");
			}else {
				System.out.print(" ");
			}
		}System.out.println();
	}

}

}
```

OutPut:



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4. WAP to print

Program:

```
package in.java_practice;

public class Home_Pattern {

public static void main(String[] args) {

        int n=15;
```

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

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

}

}
```

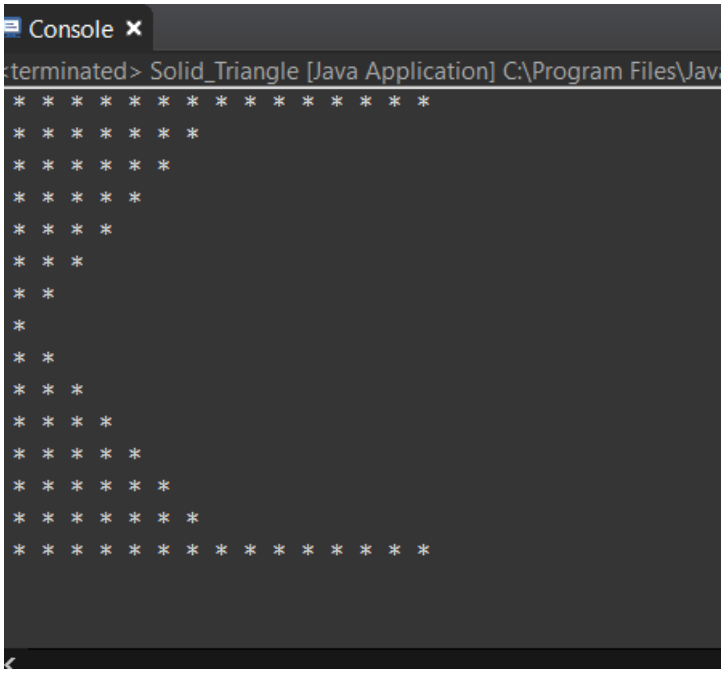
OutPut:

5. WAP to print

Program:

```
package in.java_practice;

public class Solid_Triangle {

	public static void main(String[] args) {

		int n=15;

		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-1)/2 || i-j>=(n-1)/2) {
					System.out.print(" *");
				}else {
					System.out.print("  ");
				}
			}System.out.println();
		}

	}

}
```

Output:


Console
terminated> Solid_Triangle [Java Application] C:\Program Files\Jav
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