Assignment 1

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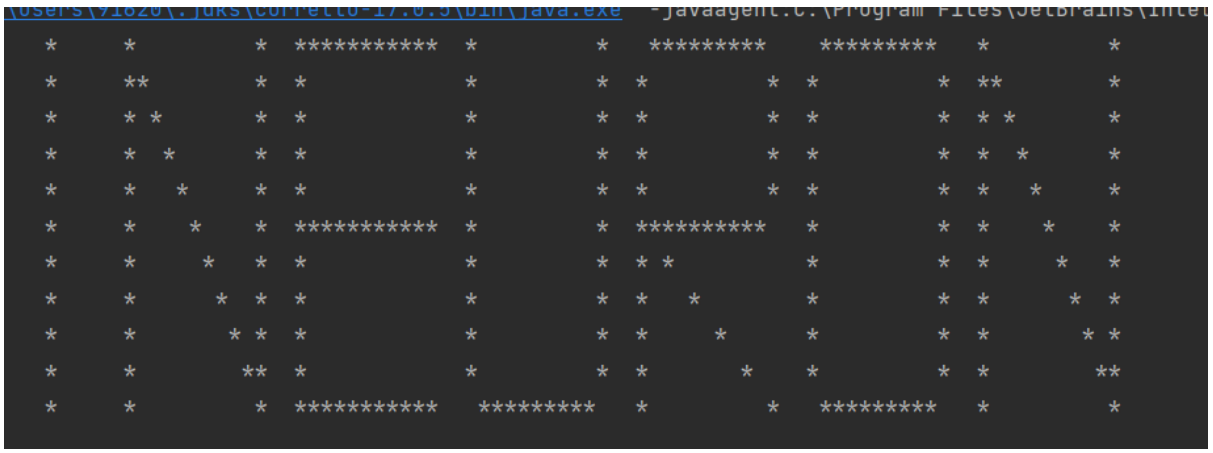
1.Write a program(WAP) to print INEURON using pattern programming logic.

```
Sol:- public class Ineuron {
    public static void main(String[] args) {
        int n = 11;
        for (int i = 0; i < n; i++) {
            for (int j = 0; j < n; j++) {
                if (j == (n - 1) / 2) {
                    System.out.print("*");
                } else {
                    System.out.print(" ");
                }
            }
            for (int j = 0; j < n; j++) {
                if (j == 0 || i == j || j == n - 1) {
                    System.out.print("*");
                } else {
                    System.out.print(" ");
                }
            }
            System.out.print("  ");
            for (int j = 0; j < n; j++) {
                if (i == 0 || i == (n - 1) / 2 || i == n - 1 || j == 0) {
                    System.out.print("*");
                } else {
                    System.out.print(" ");
                }
            }
            System.out.print("  ");
            for (int j = 0; j < n; j++) {
                if (j == n - 1&&i<n-1 || i == n - 1 &&j>0&&j<n-1|| j ==
0&&i<n-1) {
                    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 || j == 0 &&i>0|| j == (n - 1) && i
<(n - 1) / 2 &&i>0|| i == (n - 1) / 2 &&j<n-1|| (2*i)-j==(n-1)) {
                    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 || i == j|| j == n - 1) {
                    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

```
Sol:- public class ShapeTwo {
    public static void main(String[] args) {
        int n =4;
        for (int i = 0; i< n;i++) {
            for (int j = 0; j< n; j++) {
                System.out.print(i+1);
            }
            System.out.println();
        }
    }

}
```

3. WAP to print

```
Sol:-public class Home {
    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==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();
        }
    }
}
```

4.Sol:-

```
public class ShapeFour {
    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||i==n-2||j==0&&i>=(n-1)/2||j==n-1&&i>=(n-
1)/2||i-j>=(n-1)/2||i+j>=(n-1)+(n-1)/2) {
                    System.out.print("*");
                } else {
                    System.out.print(" ");
                }
            }
            System.out.println();
        }
    }
}
```

5.Sol:-

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