

Assignment 1

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

Solution:

```
public class First {  
    public static void main(String[] args) {  
        char[] c = new char[]{'I', 'N', 'E', 'U', 'R', 'O', 'N'};  
  
        for(int i=0 ; i<c.length ; i++){  
            System.out.print(c[i]);  
        }  
    }  
}
```

Output:

```
INEURON  
Process finished with exit code 0
```

2. Write a program to print

1 1 1 1

2 2 2 2

3 3 3 3

4 4 4 4

Solution:

```
public class Second {  
    public static void main(String[] args) {  
        for (int row = 1; row <= 4; row++) {  
            for(int col=1 ; col<=4 ; col++){  
                System.out.print(row + " ");  
            }  
            System.out.println();  
        }  
    }  
}
```

Output:

1 1 1 1

2 2 2 2

3 3 3 3

4 4 4 4

Process finished with exit code 0

3. Write a program to print



Solution:

```
public class Third {
    public static void main(String[] args) {
        int noOfRows = 14;
        int noOfCols = 14;
        int noOfStar = noOfCols;

        for(int row=1 ; row<=noOfRows ; row++){
            if(row==1 || row==14){
                noOfStar = noOfCols;
            } else if(row==2 || row==8){
                noOfStar-=1;
            } else if(row > 2 && row<8){
                noOfStar-=2;
            } else {
                noOfStar=2;
            }

            int noOfSpaces = noOfCols - noOfStar;

            if(noOfSpaces==0){
```

Output:

Output:

4. WAP to Print



Solution:

```
public class Fourth {
    public static void main(String[] args) {
        int noOfRows = 14;
        int noOfCols = 14;
        int noOfSpaces = noOfCols;
        for(int row=1 ; row<=noOfRows ; row++){
            noOfSpaces = row<7 ? 14 : noOfSpaces-2;
            int noOfStar = noOfSpaces>=0 ? noOfCols-noOfSpaces : 14;

            for(int k=1 ; k<=noOfStar/2 ; k++){
                System.out.print(" ");
            }

            for(int k=1 ; k<=noOfSpaces ; k++){
                System.out.print(" ");
            }

            for(int k=(noOfStar/2)+1 ; k<=noOfStar ; k++){
                System.out.print("*");
            }
            System.out.println();
        }
    }
}
```

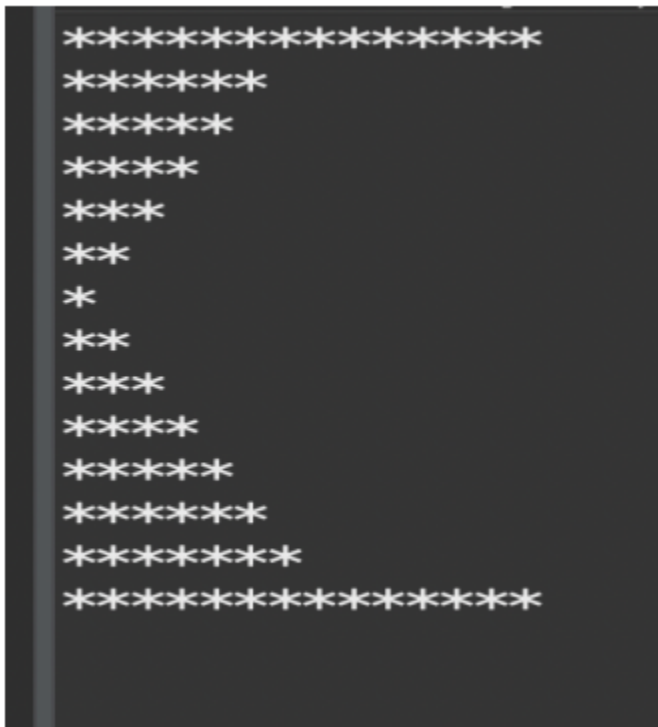
```
}  
}  
}
```

Output:

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

Process finished with exit code 0

5. WAP to Print



Solution:

```
public class Fifth {  
    public static void main(String[] args) {  
        int totalRows = 14;  
        for(int row=1 ; row<=totalRows ; row++){  
            int cols = 0;  
            if(row==1 || row==14){  
                cols = 14;  
            } else if(row>1 && row<=totalRows/2){  
                cols = (totalRows/2)-row+1;  
            } else {  
                cols = row%(totalRows/2)+1;  
            }  
            for(int col=1 ; col<=cols ; col++){  
                System.out.print("*");  
            }  
            System.out.println();  
        }  
    }  
}
```

Output:

**

*

**

Process finished with exit code 0