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

```
public class Ineuron
  public static void main(String[] args)
  {
     int n = 7;
     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 (i == 0 || j == 0 || i == (n-1)/2 || i==n-1)
             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) || j==(n-1) && i!=0 && i!=(n-1)/2 || i==(n-1)/2 || 
1)/2 && 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 \&\& i!=(n-1)|| i==0 \&\& j!=0 \&\& j!=(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 (int j = 0; j < n; j++)
```

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

```
System.out.print(i);
}
System.out.println();
}
}
```

3. WAP to print

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

```
public class Pattern3
         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 || j==0 ||
                   j == n - 1 || i == n-1||
                    i+j<=(n-1)/2 || j-i>=(n-1)/2)
                       System.out.print("*");
                    }
                 else
                       System.out.print(" ");
                 }
                 System.out.println();
              }
```

```
}
```

4. WAP to print

5. WAP to print