Assignmen-1

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

Sol:

```
package patternprogramming;
public class printIneuron {
    public static void main(String[] args) {
         // TODO Auto-generated method stub
   int n=10;
   for(int i=0;i<n;i++) {</pre>
       //PRINTS I
       for(int j=0;j<n;j++) {</pre>
            if(i==0 && j<n-1|| i==n-1 && j<n-1 ||</pre>
j==n/2) {
                System.out.print("*");
            else {
                System.out.print(" ");
            }
       }
       //N
       for(int j=0;j<n;j++) {</pre>
            if(j==0 || i==j || j==n-1)
                System.out.print("*");
            else
            {
                System.out.print(" ");
```

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

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

```
1<sup>st</sup> Question Solution:
2. Write a program to print
1111
2222
3333
4444
sol: package patternprogramming;
public class Question2nd {
     public static void main(String[] args) {
          // TODO Auto-generated method stub
          int n=5;
          for(int i=1;i<n;i++) {</pre>
               for(int j=1;j<n;j++) {</pre>
                    System.out.print(i);
          }
              System.out.println();
          }
     }
}
```

```
2<sup>nd</sup> Question Solution
1111
2222
3333
4444
3. WAP to print
package patternprogramming;
public class Question3rd {
    public static void main(String[] args) {
         // TODO Auto-generated method stub
   int n=14;
   for(int i=0;i<n;i++) {</pre>
        for(int j=0;j<n;j++) {</pre>
                if( j==0 || i==n-1 || j==n-1 ||
i+j <= (n-1)/2 \&\& j>0 \mid | j-i>= (n-1)/2 \&\& j>0 ){
             System.out.print("*");
             else {
                 System.out.print(" ");
             }
        System.out.println();
}
```

3rd Question Solution

```
******
*****
******
4. WAP to print
package patternprogramming;
public class Question4th {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int n=14;
        for(int i=0;i<n;i++) {</pre>
             for(int j=0;j<n;j++) {</pre>
                 if(j==0 && i>n/2 || i==n-1 ||
j=n-1 \& i>n/2 \mid | i-j>=(n-1)/2 \mid | i+j>=n-1+(n-1)/2
) {
                      System.out.print("*");
                 else
                 {
                      System.out.print(" ");
                 }
             System.out.println();
```

```
}
    }
}
4th Question Solution
Q5 Write a program to print
patternprogramming;
public class Question5th {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
         int n=14;
        for(int i=0;i<n;i++) {</pre>
             for(int j=0;j<n;j++) {</pre>
                  if( i==0 && j>0 || i==n-1 && j>0
|| i+j <= (n+1)/2 \&\& j>0 || i-j>= (n-1)/2 \&\& j>0) {
                      System.out.print("*");
                  else {
                      System.out.print(" ");
                  }
             System.out.println();
```
