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

**public** **class** Pattern1 {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**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++)

{

**int** k = 0;

**if** (j == n||j == k || i==j)

{

System.***out***.print("\*");

}

**else**

{

System.***out***.print(" ");

}

k++;

}

System.***out***.print(" ");

**for** (**int** j = 0; j <= n; j++)

{

**int** l = 0;

**if** (i == 0||j == l || i == n-1 || i==(n/2))

{

System.***out***.print("\*");

}

**else**

{

System.***out***.print(" ");

}

l++;

}

System.***out***.print(" ");

**for** (**int** j = 0; j <= n; j++)

{

**int** m = 0;

**if** (j == m || i == n-1 || j == n)

{

System.***out***.print("\*");

}

**else**

{

System.***out***.print(" ");

}

m++;

}

System.***out***.print(" ");

**for** (**int** j = 0; j <= n; j++)

{

**int** p = 0;

**if** (i == 0 || j == p || (j == n && i < (n+1)/2) || i == (n-1)/2 || (i == j && i > n/2))

{

System.***out***.print("\*");

}

**else**

{

System.***out***.print(" ");

}

p++;

}

System.***out***.print(" ");

**for** (**int** j = 0; j <= n; j++)

{

**int** q = 0;

**if** (i == 0 || i==n-1 || j==q || j==n )

{

System.***out***.print("\*");

}

**else**

{

System.***out***.print(" ");

}

q++;

}

System.***out***.print(" ");

**for** (**int** j = 0; j <= n; j++)

{

**int** r = 0;

**if** (j == n||j == r || i==j)

{

System.***out***.print("\*");

}

**else**

{

System.***out***.print(" ");

}

r++;

}

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

**public** **class** Pattern {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int** n=5;

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

**for**(**int** j=1;j<n;j++) {

System.***out***.print(i);

}

System.***out***.println(i);

}

}

}

OUTPUT

11111

22222

33333

44444

3. WAP to print

**public** **class** Pattern3 {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int** n = 14;

**int** k = n/2-1;

**int** l = n/2+1;

**for** (**int** i=1;i<=n; i++)

{

**for** (**int** j=1;j<=n;j++)

{

**if** ((i==1 || i==n) || (j <l || j > k) || (i > n/2 && (j==1 || j==n)) )

{

System.***out***.print("\*");

}

**else**

{

System.***out***.print(" ");

}

}

System.***out***.println();

k = k+1;

l = l-1;

}

}

}

OUTPUT

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4. WAP to print

**public** **class** Pattern4 {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int** n = 14;

**int** k = 1;

**int** l = n;

**int** m = 0;

**for** (**int** i=1;i<=n; i++)

{

**for** (**int** j=1;j<=n;j++)

{

**if** ( i > (n/2-1))

{

**if** (j <= (k + m) || j >= (l-m))

{

System.***out***.print("\*");

}

**else**

{

System.***out***.print(" ");

}

}

**else**

{

System.***out***.print(" ");

}

}

System.***out***.println();

**if** ( i > (n/2-1))

{

m++;

}

}

}

}

OUTPUT

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5. WAP to print

**public** **class** Pattern5 {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int** n = 14;

**int** counter1 = 0;

**int** counter2 = 1;

**for** (**int** i=1; i<=n; i++)

{

**for** (**int** j=1; j<=n; j++) {

**if** (i==1 || j <= (n/2-counter1) || i==n || (i>=n/2 && j < (counter2 +1)))

{

System.***out***.print("\*");

}

**else**

{

System.***out***.print(" ");

}

}

System.***out***.println();

counter1++;

**if** (i>=n/2)

{

counter2++;

}

}

}

}

OUTPUT

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