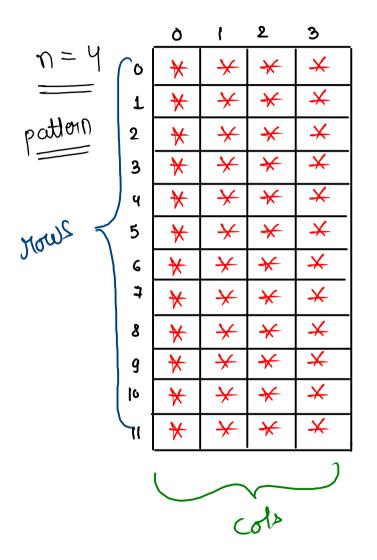
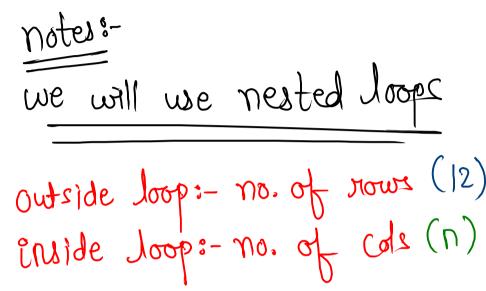
#### Pattern 1 - Print Stars in same line

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();

    for (int i = 0; i < n; i++) {
        System.out.print("*");
    }
}</pre>
```

# Pattern 2 - Print n x 12 star rectangle





nested loop int n = son, next Int(); // 4 for (int i=0; i<12; i++)? for (int j = 0 j j < n; j++) {

Syso("\*");

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();

    for (int i = 0; i < 12; i++) {
        for (int j = 0; j < n; j++) {
            System.out.print("*");
        }
        System.out.println();
    }
}</pre>
```

```
Note:

i will always represent no of nows

j will always represent no of cold
```

# Mote à-

Innor loop: will deade how each now should be printed

Outer loop:- how many rows will be there

# Pattern 3 - nxn star rectangle

```
public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
       int n = scn.nextInt();
for (int i = 0; i < n; i++) {
    for (int j = 0; j < n; j++) {
        System.out.print("*");
    }
    System.out.println();
}</pre>
```

# GKSTR19 Pattern\_4

0	1	2	3	Ч	5
*					
*	*				
*	*	*			
*	*	*	*		
*	*	*	*	*	
*	*	*	*	*	*

```
incomplete templeate
```

```
int st = 1;

for (int i=0; i < n; i++) {

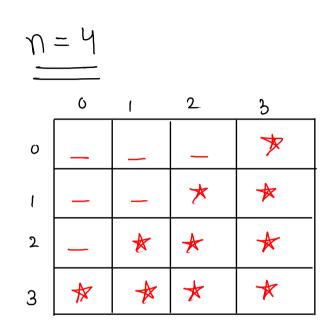
for (int j=0; j < st; j++) {

    Syso ("*");

    Syso ("*");
```

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int st = 1;
    for (int i = 0; i < n; i++) { // no of rows
        for (int j = 0; j < st; j++) {
            System.out.print("* ");
        st++;
        System.out.println();
```

### GKSTR20 Pattern\_5



Note:

90% of template will
be completed with

Let now of pattern only

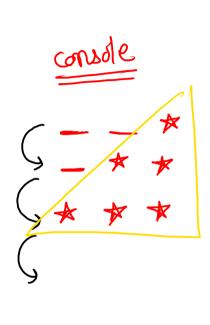
```
template complete
int st = 1;
int sp=n-1;
for ( int i=0; i<n; i++) { // no, of your
  for (int j=0; j< sp; j++) {

Syso("");
    3(++i); to+ j'=0; j'< st; j++)?
Syso("*");
    Sysoln();
```

# Code

```
public static void main(String[] args) {
     Scanner scn = new Scanner(System.in);
     int rows = scn.nextInt(); #3
    int st = 1;
     int sp = rows - 1;
    for (int i = 0; i < rows; i++) {
       for (int j = 0; j < sp; j++) {
    System.out.print(" ");</pre>
    for (int j = 0; j < st; j++) {
    System.out.print("*");
         System.out.println();
```

```
st= 12 2 4
     sp=XXX-I
 (=0,j=0 (0«2)~
       j=1 (1<2)~
      1=2 (2<2)x
      j = 0 \ (0 < 1) \vee
     i = 1 (1 < 1) \times
i=1, i=0, (0<1)
       j=1, (1<1)×
       j = 0, (0 < 2) \sim
      j = 1, (1 < 2) \sim
      j = 2, (2 < 2) \times
i = 2, (i = 0, (0 < 0))x
      j = 0, (0 < 3) = 1, (1 < 3) = 2, (2 < 3) = 3, (3 < 3) = 3
i=3,(3<3)
```



```
n= 4
                                                                    int stan;
                            n = 4
                                                                    int sp=03
                                                                   for ( int i=0; i<n; i++) { // no. of your
                                                                    fox(int j=0; j<2p; j++){

syso("");
                                                                      fox(int j=0; j<st; j++){

Syso("*");
n=4
                                                                                              int st=n;
                                                                                               int sp = 0;
                                                                                           for (int i=0; i < n; i++) { // no, of HOWS

for (int j=0; j < sp; j++) {

Syso(" ");
                                                                                                 for (int j=0; j < st; j++) {

Syso("*");
```