**import** java.util.\*;

**public** **class** Q1{

**public** **static** **void** printPattern(**int** n)

{

**int** i, j, k;

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

**for** (j = i; j < n; j++) {

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

}

**for** (k = 1; k <= (2 \* i - 1); k++) {

**if** (k == 1 || i == n || k == (2 \* i - 1)) {

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

}

**else** {

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

}

}

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

}

}

// Driver Function

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

{

**int** n = 6;

*printPattern*(n);

}

}

OUTPUT:

\*

\* \*

\* \*

\* \*

\* \*

\*\*\*\*\*\*\*\*\*\*\*

**import** java.util.Scanner;

**public** **class** Q3

{

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

{

Scanner sc = **new** Scanner(System.***in***);

System.***out***.println("How many rows you want in this pattern?");

**int** rows = sc.nextInt();

System.***out***.println("Here is your pattern....!!!");

**int** num = 1;

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

{

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

{

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

num++;

}

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

}

sc.close();

}

}

OUTPUT:

How many rows you want in this pattern?

5

Here is your pattern....!!!

1

2 3

4 5 6

7 8 9 10

11 12 13 14 15

**import** java.util.\*;

**class** Q4{

**public** **static** **void** printPascal(**int** n)

{

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

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

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

}

**int** x = 1;

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

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

x = x \* (i - k) / k;

}

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

}

}

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

{

**int** n = 5;

*printPascal*(n);

}

}

OUTPUT:

1

1 1

1 2 1

1 3 3 1

1 4 6 4 1

**import** java.util.\*;

**public** **class** Q6 {

**public** **static** **void** printPattern(**int** n)

{

**int** i, j;

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

**for** (j = 1; j < i; j++) {

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

}

**for** (j = i; j <= n; j++) {

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

}

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

}

}

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

{

**int** n = 5;

*printPattern*(n);

}

}

OUTPUT:

1 2 3 4 5

2 3 4 5

3 4 5

4 5

5

**import** java.util.Scanner;

**public** **class** Q23

{

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

{

Scanner sc = **new** Scanner(System.***in***);

System.***out***.println("How many rows you want in this pattern?");

**int** rows = sc.nextInt();

System.***out***.println("Here is your pattern....!!!");

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

{

**int** num;

**if**(i%2 == 0)

{

num = 0;

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

{

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

num = (num == 0)? 1 : 0;

}

}

**else**

{

num = 1;

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

{

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

num = (num == 0)? 1 : 0;

}

}

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

}

sc.close();

}

}

OUTPUT:

How many rows you want in this pattern?

5

Here is your pattern....!!!

10101

01010

10101

01010

10101