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**package** com.StarPatternPractice;

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

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

**for**(**int** i=1;i<=5;i++)

{

**boolean** k=**true**;

**for**(**int** j=1;j<=9;j++)

{

**if**(j>=6-i&&j<=4+i&&k)

{

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

k=**false**;

}

**else**

{

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

k=**true**;

}

}

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

}

}

}

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**package** com.StarPatternPractice;

**public** **class** Pattern2 {

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

**int** k=0;

**for**(**int** i=1;i<=7;i++)

{

**int** p=i;

**if**(i<=4)

{

k++;

}

**else**

{

k--;

}

**for**(**int** j=1;j<=7;j++)

{

**if**(j>=5-k&&j<=3+k)

{

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

**if**(j<4)

p--;

**else**

p++;

}

**else**

{

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

}

}

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

}

}

}

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**package** com.StarPatternPractice;

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

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

**int** k=0;

**for**(**int** i=1;i<=7;i++)

{

**if**(i<=4)

k++;

**else**

k--;

**for**(**int** j=1;j<=4;j++)

{

**if**(j<=k)

{

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

}

**else**

{

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

}

}

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

}

}

}

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**package** com.StarPatternPractice;

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

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

**for**(**int** i=1;i<=4;i++)

{

**for**(**int** j=1;j<=8;j++)

{

**if**(j>=5-i&&j<=9-i)

{

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

}

**else**

{

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

}

}

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

}

}

}

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**package** com.StarPatternPractice;

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

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

**for**(**int** i=1;i<=4;i++)

{

**for**(**int** j=1;j<=8;j++)

{

**if**(j>=i&&j<=4+i)

{

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

}

**else**

{

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

}

}

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

}

}

}

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**package** com.StarPatternPractice;

**public** **class** Pattern6 {

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

**for**(**int** i=1;i<=7;i++)

{

**for**(**int** j=1;j<=7;j++)

{

**if**((i==1||i==7||j==1||j==7)||(i>=3&&i<=5&&j>=3&&j<=5)&&(i==3||i==5||j==3||j==5))

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

**else**

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

}

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

}

}

}

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**package** com.StarPatternPractice;

**public** **class** Pattern7 {

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

**for**(**int** i=1;i<=5;i++)

{

**for**(**int** j=1;j<=5;j++)

{

**if**(j==i||j==6-i)

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

**else**

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

}

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

}

}

}

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**package** com.StarPatternPractice;

**public** **class** Pattern8 {

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

**for**(**int** i=1;i<=7;i++)

{

**for**(**int** j=1;j<=7;j++)

{

**if**((i+j==5)||(i-j==3)||(i+j==11)||(j-i==3))

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

**else**

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

}

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

}

}

}

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**package** com.StarPatternPractice;

**public** **class** Pattern9 {

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

**int** k=0;

**for**(**int** i=1;i<=7;i++)

{

**if**(i<=4)

k++;

**else**

k--;

**for**(**int** j=1;j<=7;j++)

{

**if**(j>=k&&j<=8-k)

{

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

}

**else**

{

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

}

}

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

}

}

}

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**package** com.StarPatternPractice;

**public** **class** Pattern12 {

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

**for**(**int** i=1;i<=5;i++)

{

**int** k=i;

**for**(**int** j=1;j<=9;j++)

{

**if**(j>=6-i&&j<=4+i)

{

System.***out***.print(k%2+"");

}

**else**

{

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

}

}

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

}

}

}

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**package** com.StarPatternPractice;

**public** **class** Pattern13 {

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

**for**(**int** i=1;i<=5;i++)

{

**int** k=1;

**for**(**int** j=1;j<=9;j++)

{

**if**(j>=6-i&&j<=4+i)

{

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

k=1-k;

}

**else**

{

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

}

}

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

}

}

}

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**package** com.StarPatternPractice;

**public** **class** Pattern14 {

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

**for**(**int** i=1;i<=5;i++)

{

**int** k=i;

**for**(**int** j=1;j<=9;j++)

{

**if**(j>=6-i&&j<=4+i)

{

System.***out***.print(k%2+"");

k++;

}

**else**

{

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

}

}

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

}

}

}

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**package** com.StarPatternPractice;

**public** **class** Pattern15 {

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

**for**(**int** i=1;i<=5;i++)

{

**int** k=5;

**for**(**int** j=1;j<=9;j++)

{

**if**(j>=6-i&&j<=4+i)

{

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

**if**(j<5)

k--;

**else**

k++;

}

**else**

{

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

}

}

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

}

}

}

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**package** com.StarPatternPractice;

**public** **class** Pattern17 {

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

**int** k=0;**int** p;

**for**(**int** i=1;i<=7;i++)

{

p=1;

**if**(i<=4)

k++;

**else**

k--;

**for**(**int** j=1;j<=7;j++)

{

**if**(j>=k&&j<=8-k)

{

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

**if**(j<4)

p++;

**else**

p--;

}

**else**

{

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

}

}

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

}

}

}

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**package** com.NumberPattern;

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

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

**for**(**int** i=1;i<=4;i++)

{

**int** k=1;

**for**(**int** j=1;j<=7;j++)

{

**if**(j>=5-i&&j<=3+i)

{

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

**if**(j<4)

k++;

**else**

k--;

}

**else**

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

}

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

}

}

}

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**package** com.NumberPattern;

**public** **class** Pattern2 {

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

**for**(**int** i=1;i<=4;i++)

{

**int** k=i;

**for**(**int** j=1;j<=7;j++)

{

**if**(j>=5-i&&j<=3+i)

{

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

**if**(j<4)

k++;

**else**

k--;

}

**else**

{

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

}

}

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

}

}

}

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**package** com.NumberPattern;

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

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

**for**(**int** i=1;i<=7;i++)

{

**int** k=7-i;

**for**(**int** j=1;j<=7;j++)

{

**if**(j<=8-i)

{

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

k--;

}

**else**

{

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

}

}

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

}

}

}

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**package** com.NumberPattern;

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

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

**int** k=0;

**for**(**int** i=1;i<=9;i++)

{

**int** x=1;

**if**(i<=5)

k++;

**else**

k--;

**for**(**int** j=1;j<=5;j++)

{

**if**(j>=6-k)

{

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

x++;

}

**else**

{

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

}

}

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

}

}

}

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**package** com.NumberPattern;

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

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

**for**(**int** i=1;i<=6;i++)

{

**int** k=1;

**for**(**int** j=1;j<=6;j++)

{

**if**(j<=i)

{

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

k=1-k;

}

**else**

{

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

}

}

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

}

}

}

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**package** com.NumberPattern;

**public** **class** Pattern6 {

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

**for**(**int** i=1;i<=4;i++)

{

**int** k=i;

**for**(**int** j=1;j<=7;j++)

{

**if**(j>=5-i&&j<=3+i)

{

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

**if**(j<4)

k--;

**else**

k++;

}

**else**

{

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

}

}

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

}

}

}

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0 3 6 9

0 4 8 12 16

**package** com.NumberPattern;

**public** **class** Pattern7 {

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

**for**(**int** i=1;i<=5;i++)

{

**int** k=0;

**for**(**int** j=1;j<=5;j++)

{

**if**(j<=i)

{

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

k=k+i-1;

}

**else**

{

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

}

}

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

}

}

}

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**package** com.NumberPattern;

**public** **class** Pattern8 {

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

**for**(**int** i=1;i<=5;i++)

{

**int** k=1;

**for**(**int** j=1;j<=5;j++)

{

**if**(j<=5)

{

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

k=1-k;

}

**else**

{

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

}

}

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

}

}

}

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0 1 0 1 0

1 0 1 0 1

0 1 0 1 0

1 0 1 0 1

**package** com.NumberPattern;

**public** **class** Pattern10 {

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

**for**(**int** i=1;i<=5;i++)

{

**int** k=i%2;

**for**(**int** j=1;j<=5;j++)

{

**if**(j<=5)

{

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

k=1-k;

}

**else** {

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

}

}

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

}

}

}

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**package** com.NumberPattern;

**public** **class** Pattern11 {

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

**for**(**int** i=1;i<=5;i++)

{

**int** k=5;

**for**(**int** j=1;j<=5;j++)

{

**if**(j<=i)

{

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

k--;

}

**else**

{

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

}

}

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

}

}

}

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1 2 1

1 3 3 1

1 4 6 4 1

**package** com.NumberPattern;

**public** **class** Pattern18 {

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

**for**(**int** i=0;i<=4;i++)

{

**for**(**int** j=1;j<=4-i;j++)

{

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

}

**int** number=1;

**for**(**int** k=0;k<=i;k++)

{

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

number=number\*(i-k)/(1+k);

}

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

}

}

}

**package** com.PatternPrograms1;

**public** **class** Pattern11 {

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

**int** n=5;

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

{

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

{

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

}

**int** num=1;

**for**(**int** k=0;k<=i;k++)

{

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

num=num\*(i-k)/(k+1);

}

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

}

}

}

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**package** com.PatternPrograms1;

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

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

**for**(**int** i=1;i<=5;i++)

{

**for**(**int** j=1;j<=5;j++)

{

**if**(j>=i)

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

**else**

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

}

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

}

}

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**package** com.PatternPrograms1;

**public** **class** Pattern2 {

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

**for**(**int** i=1;i<=5;i++) {

**int** k=1;

**for**(**int** j=1;j<=5;j++) {

**if**(j>=6-i) {

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

k++;

}

**else**

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

}

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

}

}

}

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**package** com.PatternPrograms1;

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

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

**for**(**int** i=1;i<=5;i++) {

**int** k=i;

**for**(**int** j=1;j<=5;j++) {

**if**(j>=6-i) {

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

k--;

}

**else**

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

}

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

}

}

}

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**package** com.PatternPrograms1;

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

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

**for**(**int** i=1;i<=5;i++) {

**int** k=1;

**for**(**int** j=1;j<=5;j++) {

**if**(j>=i) {

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

k++;

}

**else**

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

}

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

}

}

}

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**package** com.PatternPrograms1;

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

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

**for**(**int** i=1;i<=5;i++) {

**int** k=i;

**for**(**int** j=1;j<=5;j++) {

**if**(j>=i) {

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

k++;

}

**else**

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

}

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

}

}

}

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**package** com.PatternPrograms1;

**public** **class** Pattern6 {

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

**for**(**int** i=1;i<=5;i++) {

**for**(**int** j=1;j<=9;j++) {

**if**(j>=6-i&&j<=4+i)

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

**else**

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

}

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

}

}

}

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**package** com.PatternPrograms1;

**public** **class** Pattern7 {

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

**for**(**int** i=1;i<=5;i++) {

**for**(**int** j=1;j<=9;j++) {

**if**(j>=i&&j<=10-i)

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

**else**

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

}

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

}

}

}

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2 6

3 7 10

4 8 11 13

5 9 12 14 15

**package** com.PatternPrograms2;

**public** **class** Pattern8 {

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

**int** n=5;

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

**int** k=i;

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

**if**(j<=i) {

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

k=k+(n-j);

}

**else**

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

}

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

}

}

}

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**package** com.PatternPrograms2;

**public** **class** Pattern11 {

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

**for**(**int** i=1;i<=5;i++) {

**int** k=5;

**for**(**int** j=1;j<=9;j++) {

**if**(j>=i&&j<=10-i) {

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

**if**(j<5)

k--;

**else**

k++;

}

**else**

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

}

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

}

}

}

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3 3 3 3 3

4 4 4 4 4 4 4

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**package** com.StarPattern;

**public** **class** Pattern2 {

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

**int** n=5;

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

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

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

// decreasing

}

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

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

}

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

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

}

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

}

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

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

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

}

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

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

}

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

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

}

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

}

}

}

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**package** com.StarPattern;

// HEART PATTERN PROGRAM IN JAVA

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

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

**int** n=5;

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

**for**(**int** j=0;j<=n+1;j++) {

**if**((i==0&&j%3!=0)||(i==1&&j%3==0)||(i-j==2)||(i+j==8))

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

**else**

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

}

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

}

}

}

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

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

**int** n=6;

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

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

**if**((j==0&&i<=2)||(i==0&&j>=4)||(i==6&&j<=2)||(i>=4&&j==6)||(i==3&&j>=0)||(j==3&&i>=0))

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

**else**

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

}

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

}

}

}

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**package** com.StarPattern;

// HOLLOW HEART PATTERN PROGRAMS IN JAVA

**public** **class** Pattern6 {

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

**for**(**int** i=1;i<=3;i++)

{

**for**(**int** j=1;j<=15;j++)

{

**if**((j>=4-i&&j<=4+i)||(j>=12-i&&j<=12+i))

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

**else**

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

}

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

}

**for**(**int** i=8;i>=1;i--)

{

**for**(**int** k=1;k<=8-i;k++)

{

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

}

**for**(**int** j=1;j<=2\*i-1;j++)

{

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

}

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

}

}

}

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**package** com.StarPattern;

**public** **class** Pattern7 {

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

**for**(**int** i=0;i<5;i++)

{

**for**(**int** j=1;j<=5\*i;j++)

{

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

}

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

}

}

}

\*\*\*\*

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\*\*\*\*

**package** com.StarPattern;

//JAVA Program for Square Star Pattern

**public** **class** Pattern8 {

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

**for**(**int** i=1;i<=4;i++)

{

**for**(**int** j=1;j<=4;j++)

{

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

}

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

}

}

}

\*\*\*\*

\* \*

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\*\*\*\*

**package** com.StarPattern;

//Java Program for Hollow Square Star Pattern

**public** **class** Pattern9 {

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

**for**(**int** i=1;i<=4;i++)

{

**for**(**int** j=1;j<=4;j++)

{

**if**((i==1||i==4)||(j==1||j==4))

{

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

}

**else**

{

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

}

}

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

}

}

}

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

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

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

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

**package** com.StarPattern;

//Java Program for Printing Rectangle Star Pattern

**public** **class** Pattern10 {

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

**for**(**int** i=1;i<=4;i++)

{

**for**(**int** j=1;j<=6;j++)

{

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

}

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

}

}

}

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

\* \*

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

**package** com.StarPattern;

//Java Program for Hollow Rectangle Star Pattern

**public** **class** Pattern11 {

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

**for**(**int** i=1;i<=4;i++)

{

**for**(**int** j=1;j<=6;j++)

{

**if**((i==1||i==4)||(j==1||j==6))

{

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

}

**else**

{

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

}

}

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

}

}

}

\*

\* \*

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

**package** com.StarPattern;

//JAVA Program for Hollow Pyramid Star Pattern

**public** **class** Pattern12 {

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

**for**(**int** i=1;i<=4;i++)

{

**for**(**int** j=1;j<=7;j++)

{

**if**((i==4&&j<=7)||(i+j==5)||(j-i==3))

{

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

}

**else**

{

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

}

}

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

}

}

}

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

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**package** com.StarPattern;

//Java Program for Inverted Pyramid Star Pattern​

**public** **class** Pattern13 {

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

**for**(**int** i=1;i<=4;i++)

{

**for**(**int** j=1;j<=7;j++)

{

**if**(j>=i&&j<=8-i)

{

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

}

**else**

{

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

}

}

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

}

}

}

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**package** com.StarPattern;

//Java Program for Inverted Hollow Pyramid Star Pattern

**public** **class** Pattern14 {

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

**for**(**int** i=1;i<=4;i++)

{

**for**(**int** j=1;j<=5;j++)

{

**if**((i==1&&j<=5)||(i-j==1)||(i+j==7))

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

**else**

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

}

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

}

}

}

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**package** com.StarPattern;

//Java Program for Printing Inverted Half Diamond Star Pattern

**public** **class** Pattern15 {

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

**int** k=0;

**for**(**int** i=1;i<=7;i++)

{

**if**(i<=4)

k++;

**else**

k--;

**for**(**int** j=1;j<=4;j++)

{

**if**(j>=5-k)

{

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

}

**else**

{

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

}

}

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

}

}

}

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**package** com.StarPattern;

//Java Program for Diamond Star Pattern

**public** **class** Pattern17 {

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

**int** k=0;

**for**(**int** i=1;i<=7;i++)

{

**if**(i<=4)

k++;

**else**

k--;

**for**(**int** j=1;j<=7;j++)

{

**if**(j>=5-k&&j<=3+k)

{

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

}

**else**

{

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

}

}

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

}

}

}

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**package** com.StarPattern;

**public** **class** Pattern16 {

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

**int** k=0;

**for**(**int** i=1;i<=7;i++)

{

**if**(i<=4)

k++;

**else**

k--;

**for**(**int** j=1;j<=4;j++)

{

**if**(j>=5-k)

{

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

}

**else**

{

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

}

}

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

}

}

}

1111

1111

1111

1111

**package** com.NumberPattern;

//Basic Square 1 Pattern

**public** **class** Num1 {

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

**for**(**int** i=1;i<=4;i++)

{

**int** k=1;

**for**(**int** j=1;j<=4;j++)

{

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

}

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

}

}

}

1111

2222

3333

4444

**package** com.NumberPattern;

//Basic Square incrementing Pattern

**public** **class** Num2 {

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

**for**(**int** i=1;i<=4;i++)

{

**int** k=i;

**for**(**int** j=1;j<=4;j++)

{

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

}

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

}

}

}

333

313

323

333

**package** com.NumberPattern;

//Internal varsity square Pattern

**public** **class** Num3 {

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

**int** n=3;

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

{

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

{

**if**((i==1||i==4)||(j==1||j==3))

{

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

}

**else**

{

System.***out***.print(i-1);

}

}

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

}

}

}

1

23

456

78910

**package** com.NumberPattern;

# //Java Program for Basic Right Triangle Number Pattern OR Floyd’s triangle

**public** **class** Num4 {

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

**int** k=0;

**for**(**int** i=1;i<=4;i++)

{

**for**(**int** j=1;j<=4;j++)

{

**if**(j<=i)

{

k++;

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

}

**else**

{

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

}

}

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

}

}

}

10987

654

32

1

**package** com.NumberPattern;

**public** **class** Num5 {

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

**int** k=11;

**for**(**int** i=1;i<=4;i++)

{

**for**(**int** j=1;j<=4;j++)

{

**if**(j<=5-i)

{

k--;

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

}

**else**

{

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

}

}

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

}

}

}

6666

555

44

3

**package** com.NumberPattern;

**public** **class** Num6 {

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

**int** k=6;

**for**(**int** i=1;i<=4;i++)

{

**for**(**int** j=1;j<=4;j++)

{

**if**(j<=5-i)

{

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

}

**else**

{

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

}

}

k--;

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

}

}

}

3

44

555

6666

**package** com.NumberPattern;

//Java Program for Basic Incrementing Triangle Pattern(Inverted)

**public** **class** Num7 {

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

**int** k=3;

**for**(**int** i=1;i<=4;i++)

{

**for**(**int** j=1;j<=4;j++)

{

**if**(j<=i)

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

**else**

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

}

k++;

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

}

}

}

3

4 5

6 7 8

9 10 11 12

**package** com.NumberPattern;

//Java Program for Basic Double Incrementing Triangle Pattern initialised

**public** **class** Num8 {

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

**int** k=3;

**for**(**int** i=1;i<=4;i++)

{

**for**(**int** j=1;j<=4;j++)

{

**if**(j<=i)

{

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

k++;

}

**else**

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

}

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

}

}

}

3

44

555

6666

555

44

3

**package** com.NumberPattern;

//Java Program for Basic Incrementing Diamond Pattern(Inverted)

**public** **class** Num9 {

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

**int** k=0;

**int** p=2;

**for**(**int** i=1;i<=7;i++)

{

**if**(i<=4)

{

k++;

p++;

}

**else**

{

k--;

p--;

}

**for**(**int** j=1;j<=4;j++)

{

**if**(j<=k)

{

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

}

**else**

{

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

}

}

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

}

}

}

1

121

12321

1234321

123454321

**package** com.NumberPattern;

//Palindromic pyramid pattern using java

**public** **class** Num10 {

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

**for**(**int** i=1;i<=5;i++)

{

**int** k=1;

**for**(**int** j=1;j<=9;j++)

{

**if**(j>=6-i&&j<=4+i)

{

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

**if**(j<5)

k++;

**else**

k--;

}

**else**

{

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

}

}

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

}

}

}

2

333

44444

5555555

44444

555

6

**package** com.NumberPattern;

**public** **class** Num11 {

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

**int** k=0;

**for**(**int** i=1;i<=7;i++)

{

**int** p=i;

**if**(i<=4)

{

k++;

p++;

}

**else**

{

k--;

p--;

}

**for**(**int** j=1;j<=7;j++)

{

**if**(j>=5-k&&j<=3+k)

{

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

}

**else**

{

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

}

}

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

}

}

}

1

2 2

3 3 3

4 4 4 4

5 5 5 5 5

**package** com.NumberPattern;

**public** **class** Num12 {

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

**for**(**int** i=1;i<=5;i++)

{

**boolean** k=**true**;

**int** p=i;

**for**(**int** j=1;j<=9;j++)

{

**if**(j>=6-i&&j<=4+i&&k)

{

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

k=**false**;

}

**else**

{

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

k=**true**;

}

}

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

}

}

}

1

12

123

1234

**package** com.NumberPattern;

**public** **class** Num13 {

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

**for**(**int** i=1;i<=4;i++)

{

**int** k=1;

**for**(**int** j=1;j<=4;j++)

{

**if**(j<=i)

{

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

k++;

}

**else**

{

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

}

}

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

}

}

}

1234

123

12

1

**package** com.NumberPattern;

**public** **class** Num14 {

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

**for**(**int** i=1;i<=4;i++)

{

**int** k=1;

**for**(**int** j=1;j<=4;j++)

{

**if**(j<=5-i)

{

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

k++;

}

**else**

{

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

}

}

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

}

}

}

1

0 1

1 0 1

0 1 0 1

**package** com.NumberPattern;

**public** **class** Num15 {

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

**for**(**int** i=1;i<=4;i++)

{

**int** k=i;

**for**(**int** j=1;j<=4;j++)

{

**if**(j<=i)

{

System.***out***.print(k%2+" ");

k=k+1;

}

**else**

{

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

}

}

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

}

}

}

1

212

32123

4321234

**package** com.NumberPattern;

**public** **class** Num16 {

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

**for**(**int** i=1;i<=4;i++)

{

**int** k=i;

**for**(**int** j=1;j<=7;j++)

{

**if**(j>=5-i&&j<=3+i)

{

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

**if**(j<4)

k--;

**else**

k++;

}

**else**

{

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

}

}

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

}

}

}