**Assignment3**

****

class PAttern1{

public static void main(String args[]){

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

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

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

System.out.println();}

}}



class PAttern2{

public static void main(String args[]){

for(int i=1; i<=5; i++){ char a = 65;

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

System.out.print(a+++" ");

System.out.println();}

}}



class PAttern3{

public static void main(String args[]){

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

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

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

System.out.println();}

}}



class PAttern4{

public static void main(String args[]){

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

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

System.out.print(i+" ");

System.out.println();}

}}



class PAttern5{

public static void main(String args[]){

for(int i=0; i<5; i++){ char a = 65;

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

System.out.print((char)(a+i)+" ");

System.out.println();}

}}



class PAttern6{

public static void main(String args[]){

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

for(int j=5; j>=i-1; j--)

System.out.print(" ");

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

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

System.out.println();}}}



class PAttern7{

public static void main(String args[]){

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

for(int j=5; j>=i; j--)

System.out.print(" ");

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

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

System.out.println();}

}}



class PAttern8{

public static void main(String args[]){

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

for(int j=5; j>=i; j--)

System.out.print(" ");

for(int k=5-i; k<=5; k++)

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

System.out.println();}

}}



class PAttern9{

public static void main(String args[]){

for(int i=1; i<=5; i++){char a = 65;

for(int j=5; j>=i; j--)

System.out.print(" ");

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

System.out.print(a+++" ");

System.out.println();}

}}



class PAttern10{

public static void main(String args[]){

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

for(int j=5; j>=i; j--)

System.out.print(" ");

for(int k=(69-i); k<=69; k++)

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

System.out.println();}

}}



class PAttern11{

public static void main(String args[]){

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

for(int j=5; j>=i; j--)

System.out.print(" ");

for(int k=0; k<(2\*i+1); k++)

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

System.out.println();}

}}



class PAttern12{

public static void main(String args[]){

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

for(int j=5; j>=i; j--)

System.out.print(" ");

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

System.out.print(i+" ");

System.out.println();}

}}



class PAttern13{

public static void main(String args[]){

for(int i=0; i<5; i++){char a = 65;

for(int j=5; j>=i; j--)

System.out.print(" ");

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

System.out.print((char)(a+i)+" ");

System.out.println();}

}

}



class PAttern14{

public static void main(String args[]){

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

for(int j=1; j<=6-i; j++)

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

for(int k=5; k>=1; k--)

System.out.print(" ");

System.out.println();}

}

}



class PAttern15{

public static void main(String args[]){

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

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

System.out.print(" ");

for(int k=5; k>=i; k--)

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

System.out.println();}

}

}



class PAttern16{

public static void main(String args[]){

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

for(int j=5-i; j>=1; j--)

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

for(int k=1; k<=5; k++)

System.out.print(" ");

System.out.println();}

}

}



class PAttern17{

public static void main(String args[]){

int a = 1;

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

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

System.out.print(a+++" ");

System.out.println();}

}}



class PAttern18{

public static void main(String [] args){

for(int i=1; i<=5; i++){char a = 65;

for(int j=5; j>=i; j--)

System.out.print(a+++" ");

System.out.println();}

}}



class Dimond{

public static void main(String args[]){

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

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

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

System.out.println();}

}}



class Dimond1{

public static void main(String args[]){

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

for(int j=5; j>=i; j--)

System.out.print(" ");

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

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

System.out.println();}

}}



class Dimond2{

public static void main(String [] args){

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

for(int j=5; j>=i; j--)

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

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

System.out.print(" ");

System.out.println();}

}}



class Dimond3{

public static void main(String args[]){

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

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

System.out.print(" ");

for(int k=5; k>=i; k--)

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

System.out.println();}

}}



class Dimond4{

public static void main(String args[]){

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

for(int j=5; j>=i; j--)

System.out.print(" ");

for(int k=0; k<(2\*i+1); k++)

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

System.out.println();}

}}



class Dimond5{

public static void main(String args[]){

int n = 9;

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

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

System.out.print(" ");

for(int j=0;j<n-2\*i;j++)

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

System.out.println();}

}}



class Dimond6{

public static void main(String args[]){

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

for(int k=5; k>=i; k--)

System.out.print(" ");

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

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

System.out.println();}

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

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

System.out.print(" ");

for(int j=0; j<(9-2\*i);j++)

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

System.out.println();}

}}



class Dimond7{

public static void main(String args[]){

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

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

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

System.out.println();}

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

for(int j=5-i; j>=1; j--)

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

System.out.println();}

}}



class Dimond8{

public static void main(String args[]){

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

for(int k=0; k<=(5-i); k++)

System.out.print(" ");

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

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

System.out.println();}

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

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

System.out.print(" ");

for(int j=5-i; j>=1; j--)

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

System.out.println();}

}}



class Dimond9{

public static void main(String [] args){

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

for(int j=i; j<=5; j++)

System.out.print(" ");

for(int k=1; k<=5; k++)

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

System.out.println();}}}



class Dimond10{

public static void main(String [] args){

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

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

System.out.print(" ");

for(int k=1; k<=5; k++)

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

System.out.println();}}}



class Dimond11{

public static void main(String [] args){

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

for(int j=0; j<=5-i; j++)

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

for(int k=i; k>=1; k--)

System.out.print(" ");

System.out.println();}

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

for(int j=0; j<=i; j++)

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

for(int k=i; k>=1; k--)

System.out.print(" ");

System.out.println();}

}}



class Dimond12{

public static void main(String [] args){

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

for(int j=0; j<i; j++)

System.out.print(" ");

for(int k=5; k>=i; k--)

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

System.out.println();}

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

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

System.out.print(" ");

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

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

System.out.println();}

}}



class Dimond13{

public static void main(String [] args){

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

for(int j=0; j<i; j++)

System.out.print(" ");

for(int k=5; k>=i; k--)

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

System.out.println();}

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

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

System.out.print(" ");

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

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

System.out.println();}

}}



class Dimond14{

public static void main(String [] args){

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

if(i==2)

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

else if(i==3)

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

else if(i==4)

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

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

if(i==1 || i==5)System.out.print("\*");}

System.out.println();}

}}



class Dimond15{

public static void main(String [] args){

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

for(int k=i; k<=5; k++)

System.out.print(" ");

if(i==2)

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

else if(i==3)

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

else if(i==4)

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

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

if(i==1 || i==5)System.out.print("\*");}

System.out.println();}

}}



class Pyramid1{

public static void main(String args[]){

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

for(int j=9; j>=i; j--)

System.out.print(" ");

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

System.out.print(i+" ");

System.out.println();}

}}



class Pyramid2{

public static void main(String args[]){

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

for(int j=9; j>=i; j--)

System.out.print(" ");

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

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

System.out.println();}

}}



class Pyramid3{

public static void main(String args[]){

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

for(int j=9; j>=i; j--)

System.out.print(" ");

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

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

System.out.println();}

}}



class Pyramid4

{

public static void Pattern()

{

int n = 9;

int c = 1;

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

{

for(int j = (n-i); j>=1; j--)

{

System.out.print(" ");

}

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

{

System.out.print(k);

}

for(int l = 2; l<=i; l++)

{

System.out.print(i-l+1);

}

System.out.println();

c++;

}

}

public static void main(String[] args){

Pattern();

}}



class Pyramid6{

public static void main(String [] args){

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

for(int j=0; j<i; j++)

System.out.print(" ");

for(int k=9; k>=i; k--)

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

System.out.println();}

}}



class Pyramid7

{

public static void main(String [] args)

{

int x = 10;

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

x--;

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

System.out.print(" ");

for(int k=i; k<=9; k++)

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

System.out.println();}

}

}



class HalfPyramid{

public static void main(String args[]){

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

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

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

System.out.println();}

}}



class IhalfP{

public static void main(String [] args){

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

for(int j=6; j>=i; j--)

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

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

System.out.print(" ");

System.out.println();}

}}



class HollowIhP{

public static void main(String [] args){

for(int i=6; i>=1; i--){

if(i==2)

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

else if(i==3)

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

else if(i==4)

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

else if(i==5)

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

for(int j=i; j>=1; j--){

if(i==1 || i==6)System.out.print("\*");}

System.out.println();}

}}



class FullP{

public static void main(String args[]){

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

for(int j=6; j>=i; j--)

System.out.print(" ");

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

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

System.out.println();}

}}



class IfullP{

public static void main(String args[]){

int n = 7;

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

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

System.out.print(" ");

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

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

System.out.println();}

}}