**Assignment No. 2**

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**Team : 15**

**Pattern 1:**

public class Pattern{

public static void main(String []args){

int i,j;

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

{

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

System.out.print(+j);

System.out.println("");

}

}

}

**Pattern 2:**

public static void main(String []args){

int i,j;

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

{

int Alpha=64;

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

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

}

System.out.println("");

}

}

}

**Pattern 3:**

public class Pattern{

public static void main(String []args){

int i,j;

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

{

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

System.out.print(“\* ”);

System.out.println("");

}

}

}

**Pattern 4:**

public class Pattern{

public static void main(String []args){

int i,j;

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

{

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

System.out.print(+j);

System.out.println("");

}

}

}

**Pattern 5:**

public static void main(String []args){

int i,j;

int Alpha=65;

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

{

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

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

}

Alpha++;

System.out.println("");

}

}

}

**Pattern 6:**

public class Pattern

{

public static void main(String[] args)

{

int i,j,k;

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

{

for ( j=4; j>=i; j--)

{

System.out.print(" ");

}

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

{

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

}

System.out.println("");

}

}

}

**Pattern 7:**

public class Pattern

{

public static void main(String args[])

{

int i, j,k;

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

{

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

{

System.out.print(" ");

}

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

{

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

}

System.out.println();

}

}

}

**Pattern 9:**

public class Pattern

{

public static void main(String[] args)

{

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

{

int alphabet = 65;

for (int j = 4; j > i; j--)

{

System.out.print(" ");

}

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

{

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

}

System.out.println();

}

}

}

**Pattern 11:**

public class Pattern

{

public static void main(String args[])

{

int i, j;

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

{

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

{

System.out.print(" ");

}

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

{

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

}

System.out.println();

}

}

}

**Pattern 12:**

public class Pattern

{

public static void main(String args[])

{

int i, j;

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

{

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

{

System.out.print(" ");

}

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

{

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

}

System.out.println();

}

}

}

**Pattern 13:**

public class Pattern

{

public static void main(String args[])

{

int i, j,alpha=65;

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

{

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

{

System.out.print(" ");

}

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

{

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

}

alpha++;

System.out.println();

}

}

}

**Pattern 14:**

public class Pattern14

{

public static void main(String[] args)

{

int i, j;

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

{

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

{

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

}

System.out.println();

}

}

}

**Pattern 15:**

public class Pattern

{

public static void main(String[] args)

{

int i, j;

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

{

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

{

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

}

System.out.println();

}

}

}

**Pattern 16:**

public class Pattern16

{

public static void main(String[] args)

{

int i, j;

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

{

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

{

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

}

System.out.println();

}

}

}

**Pattern 17:**

public class Pattern

{

public static void main(String[] args)

{

int i, j, k = 1;

//inner loop

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

{

//outer loop

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

{

//prints the value of k

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

}

System.out.println();

}

}

}

**Pattern 18:**

public class Pattern18

{

public static void main(String[] args)

{

int i, j,alpha=64;

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

{

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

{

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

}

System.out.println();

}

}

}

---------------------------------------------------------------------------------------------------------------------------------

**Pattern 1:**

public class Pattern{

public static void main(String []args){

int i,j;

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

{

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

System.out.print(“\* ”);

System.out.println("");

}

}

}

**Pattern 2:**

public class Star

{

public static void main(String[] args)

{

int i,j,k;

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

{

for ( j=4; j>=i; j--)

{

System.out.print(" ");

}

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

{

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

}

System.out.println("");

}

}

}

**Pattern 3:**

public class Pattern{

public static void main(String []args){

int i,j;

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

{

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

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

System.out.println("");

}

}

}

**Pattern 4:**

public class Star

{

public static void main(String[] args)

{

int i,j,k;

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

{

for ( j=4; j>=i; j--)

{

System.out.print(" ");

}

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

{

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

}

System.out.println("");

}

}

}

**Pattern 5:**

public class Pattern

{

public static void main(String args[])

{

int i, j;

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

{

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

{

System.out.print(" ");

}

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

{

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

}

System.out.println();

}

}

}

**Pattern 6: Inverted Pyramid**

public class Star

{

public static void main(String[] args)

{

int i,j,k;

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

{

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

{

System.out.print(" ");

}

for ( k=4;k>=i;k--)

{

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

}

System.out.println("");

}

}

}

**Pattern 7:**

public class Pattern

{

public static void main(String args[])

{

int i, j,k;

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

{

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

{

System.out.print(" ");

}

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

{

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

}

System.out.println();

}

/////////////

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

{

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

{

System.out.print(" ");

}

for ( k=4;k>=i;k--)

{

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

}

System.out.println("");

}

}

}

**Pattern 8:**

public class Pattern

{

public static void main(String[] args)

{

int i, j, rows=6;

for (i= 0; i<= rows-1; i++)

{

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

{

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

}

System.out.println("");

}

for (i=rows-1; i>=0; i--)

{

for(j=0; j <= i-1;j++)

{

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

}

System.out.println("");

}

}

}

**Pattern 9:**

public class LeftPascalTrianglePattern

{

public static void main(String[] args)

{

int i, j, k, rows=5;

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

{

for (j=i; j <rows ;j++)

{

System.out.print(" ");

}

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

{

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

}

System.out.println("");

}

for (i=rows; i>=1; i--)

{

for(j=i; j<=rows;j++)

{

System.out.print(" ");

}

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

{

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

}

System.out.println("");

}

}

}

**Pattern 10:**

public class Star

{

public static void main(String[] args)

{

int i,j,k;

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

{

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

{

System.out.print(" ");

}

for ( k=4;k>=1;k--)

{

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

}

System.out.println("");

}

}

}

**Pattern 11:**

public class Star

{

public static void main(String[] args)

{

int i,j,k;

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

{

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

{

System.out.print(" ");

}

for ( k=4;k>=1;k--)

{

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

}

System.out.println("");

}

}

}

**Pattern 12:**

public class Pattern{

public static void main(String []args){

int i,j;

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

{

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

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

System.out.println("");

}

for(i=2;i<=5;i++ )

{

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

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

System.out.println("");

}

}

}

**Pattern 13:**

{

public static void main(String args[])

{

int i,j,k;

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

{

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

{

System.out.print(" ");

}

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

{

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

}

System.out.println("");

}

//

for ( i= 2; i<= 5; i++)

{

for ( j=4; j>=i; j--)

{

System.out.print(" ");

}

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

{

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

}

System.out.println("");

}

}

}

**Pattern 14:**

public class Star

{

public static void main(String[] args)

{

int i,j,k;

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

{

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

{

System.out.print(" ");

}

for ( k=4;k>=i;k--)

{

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

}

System.out.println("");

}

//////

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

{

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

{

System.out.print(" ");

}

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

{

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

}

System.out.println();

}

}

}

**Inverted Pyramid Pattern-7**

public class Star

{

public static void main(String[] args)

{

int i,j,k;

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

{

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

{

System.out.print(" ");

}

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

{

j=10;

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

}

System.out.println("");

}

}

}