**Assignment of logic building DAY3 (PATTERN)**

**--------------------------------------------------------------------------------------------🡪**

**12. Write a program to draw the following pattern:**

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

**ANS🡪**

class Pattern{

public static void main(String []args){

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

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

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

}

System.out.println();

}

}

}

**13. Write a program to print the following pattern:**

**1**

**2\*2**

**3\*3\*3**

**4\*4\*4\*4**

**5\*5\*5\*5\*5**

**5\*5\*5\*5\*5**

**4\*4\*4\*4**

**3\*3\*3**

**2\*2**

**1**

**ANS🡪** class Pattern{

public static void main(String []args){

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

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

if (j % 2 == 0){

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

}

else{

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

}

}

System.out.println();

}

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

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

if (j % 2 == 0){

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

}

else {

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

}

}

System.out.println();

}

}

}

**14. Write a program to print the following pattern:**

**\***

**\*\***

**\*\*\***

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

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

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

**ANS🡪**

class Pattern{

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();

}

}

}

**15. Write a program to print the following pattern:**

**\***

**\* \***

**\* \* \***

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

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

**ANS🡪** class Pattern{

public static void main(String []args){

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

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

System.out.print(" ");

}

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

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

}

System.out.println();

}

}

}

16. Write a program to print the following pattern:

\*

\* \* \*

\* \* \* \* \*

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

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

Ans🡪

class Pattern{

public static void main(String []args){

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

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

System.out.print(" ");

}

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

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

}

System.out.println();

}

}

}

17. Write a program to print the following pattern:

\* \* \* \* \*

\* \* \* \*

\* \* \*

\* \*

\*

ANS🡪

class Pattern{

public static void main(String []args){

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

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

System.out.print(" ");

}

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

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

}

System.out.println();

}

}

}

18. Write a program to print the following pattern:

\*

\* \* \*

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

\* \* \* \* \*

\* \* \*

\*

ANS🡪

class Pattern{

public static void main(String []args){

int n =4;

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

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

System.out.print(" ");

}

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

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

}

System.out.println();

}

for(int i =n-1; i> 0 ; i--){

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

System.out.print(" ");

}

for(int j=0; j<2\*i-1; j++){

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

}

System.out.println();

}

}

}

19. Write a program to print the following pattern:

1

1\*2

1\*2\*3

1\*2\*3\*4

1\*2\*3\*4\*5

ANS🡪

class Pattern{

public static void main(String []args){

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

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

if(j>1){

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

}

System.out.print(j);

}

System.out.println();

}

}

}

20. Write a program to print the following pattern:

5

5\*4

5\*4\*3

5\*4\*3\*2

5\*4\*3\*2\*1

ANS🡪

public class ReverseNumberPattern {

public static void main(String[] args) {

int start = 5;

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

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

if (j < start) {

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

}

System.out.print(j);

}

System.out.println();

}

}

}

21. Write a program to print the following pattern:

1

1\*3

1\*3\*5

1\*3\*5\*7

1\*3\*5\*7\*9

ANS🡪

class Pattern{

public static void main(String []args){

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

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

if(j%2==0){

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

}

else if(j%2 != 0){

System.out.print(j);

}

}

System.out.println();

}

}

}

22. Write a program to print the following pattern:

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

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\*

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

23. Write a program to print the following pattern:

11111

22222

33333

44444

55555

24. Write a program to print the following pattern:

1

22

333

4444

55555

25. Write a program to print the following pattern:

1

12

123

1234

12345

26. Write a program to print the following pattern:

1

2 3

4 5 6

7 8 9 10

11 12 13 14 15