**Day -4 Java Training**

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**Pattern program:**

\*

\* \*

\* \* \*

import java.util.\*;

public class Main

{

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

int a=sc.nextInt();

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

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

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

}

System.out.println();

}

}

}

**Pattern Program for:**

**1**

**1 2**

**1 2 3**

**1 2 3 4**

import java.util.\*;

public class Main

{

public static void main(String[] args) {

Scanner in=new Scanner(System.in);

int n=in.nextInt();

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

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

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

}

System.out.println();

}

}

}

Pattern Program:

import java.util.\*;

public class Main

{

public static void main(String[] args) {

Scanner in=new Scanner(System.in);

int n=in.nextInt();

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

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

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

}

System.out.println();

}

}

}

**Pattern program:**

**1**

**$$**

**123**

**$$$$**

**12345**

import java.util.\*;

public class Main

{

public static void main(String[] args) {

Scanner in=new Scanner(System.in);

int n=in.nextInt();

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

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

if(i%2==0){

System.out.print("$ ");

}

else{

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

}

}

System.out.println();

}

}

}

**Program:**

import java.util.\*;

public class Main

{

public static void main(String[] args) {

Scanner in = new Scanner(System.in);

int n = in.nextInt(),c=n;

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

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

if(j==1){

for(int k=1;k<c;k++){

System.out.print(" ");

}

c--;

}

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

}

System.out.println();

}

}

}

import java.util.\*;

public class Main

{

public static void main(String[] args) {

Scanner in=new Scanner(System.in);

int n=in.nextInt();

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

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

System.out.print(" ");

}

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

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

}

System.out.println();

}

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

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

System.out.print(" ");

}

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

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

}

System.out.println();

}

}

}

**Pyramid pattern program:**

import java.util.\*;

public class Main

{

public static void main(String[] args) {

Scanner in=new Scanner(System.in);

int n=in.nextInt();

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

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

System.out.print(" ");

}

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

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

}

System.out.println();

}

}

}

**ARRAYS:**

**PROGRAM:**

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

**public class Main**

{

public static void main(String[] args) {

Scanner in=new Scanner(System.in);

int n=in.nextInt();

int a[]=new int[n];

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

a[i]=in.nextInt();

}

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

if(a[i]%2==0){

System.out.print(a[i]+" ");

}

}

}

}

import java.util.\*;

public class Main

{

public static void main(String[] args) {

Scanner in=new Scanner(System.in);

int n=in.nextInt();

int a[]=new int[n];

int sum=0;

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

a[i]=in.nextInt();

}

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

sum+=a[i];

}

System.out.print(sum);

}

}

**MAXIMUM AND MINIMUM:**

import java.util.\*;

public class Main

{

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

int a[]=new int[n];

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

a[i]=sc.nextInt();

}

int sum=0;

int min=a[0],max=a[0];

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

if(a[i]>max){

max=a[i];

}

if(a[i]<min){

min=a[i];

}

}

System.out.println("Maximum: "+max);

System.out.println("Minimum: "+min);

}

}