program20;

public class Program20 {

public static void main(String[] args)

{

String delims=",";

String splitString="one,two,three,four,five";

System.out.println("\n split words: \n");

String[] tokens=splitString.split(delims);

int tokenCount=tokens.length;

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

{

System.out.println("Split Output:"+tokens[j]);

}

int count=1;

for(int i=0;i<=splitString.length()-1;i++)

{

if(splitString.charAt(i)== ' '&& splitString.charAt(i+1)!=' ')

{

count++;

}

}

}

}

program19;

import java.util.Scanner;

public class Program19 {

public static void main(String[] args)

{

int number,fact=1;

Scanner sc=new Scanner(System.in);

System.out.println("Enter Number:");

number=sc.nextInt();

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

{

fact=fact\*i;

}

System.out.println("Factorial of "+number+" :"+fact);

}

}

program18;

public class Program18 {

public static void main(String[] args) {

for(int i=0;i<8;i++)

{

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

{

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

}System.out.println(" ");

}

}

}

program17;

public class Program18 {

static void bubbleSort(int[]arr)

{

int number=arr.length;

int temp=0;

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

{

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

{

if(arr[j-1]>arr[j])

{

temp=arr[j-1];

arr[j-1]=arr[j];

arr[j]=temp;

}

}

}

}

public static void main(String[] args)

{

int arr[]={15,60,45,100,69};

System.out.println("Before bubble sorting:");

for(int i=0;i<arr.length;i++)

{

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

}

System.out.println();

bubbleSort(arr);

System.out.println("After bubble sorting ");

for(int i=0;i<arr.length;i++)

{

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

}

}

}

program16;

public class Program16 {

public static void main(String[] args) {

String words = null, rev="";

int i, len = 0;

System.out.print("InstanceOfVariable ");

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

{

rev = rev + words.charAt(i);

}

System.out.print("VariableOfInstance " +rev);

}

}

Program 15

package rupees;

class Rupees

{

int a=2000;

}

class BanRupees extends Rupees

{

int a=1000;

void Show()

{

System.out.println(super.a);

System.out.println(a);

}

public static void main(String[] args)

{

new BanRupees().Show();

}

}

program14;

public class Program14 {

public static void main(String[] args) {

System.out.println("Random numbers between 1 and 100 are,");

int n = 0;

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

System.out.println("Random Number ["+ (i+1) + "] : " + (int)(Math.random()\*100));

}

}

program13;

public class Program13 {

public static void main(String[] args)

{

System.out.printf("Does number %d is a binary number? %b %n", 101, isBinary(101));

System.out.printf("Does integer %d is a binary number? %b %n", 121, isBinary(121));

System.out.printf("Does %d is a binary number? %b %n", 1011, isBinary(1011));

System.out.printf("Does number %d is a binary number? %b %n", 111111, isBinary(111111));

System.out.printf("Does %d is a binary number? %b %n", 1321, isBinary(1321));

}

public static boolean isBinary(int number)

{

int copyOfInput = number;

while (copyOfInput != 0)

{

if (copyOfInput % 10 > 1)

{

return false;

}

copyOfInput = copyOfInput / 10;

}

return true;

}

}

program12;

public class Program12 {

public static void main(String[] args) {

int rem=0,s=0,s1=0,rem2=0,m=0,s2=0,rem3=0;

int n = 0;

while(n>0)

{

rem=n%10;

s=s+rem;

n=n/10;

}

while(s>0)

{

rem2=s%10;

s1=s1+rem2;

s=s/10;

}

while(s1>0)

{

rem3=s1%10;

s2=s2+rem3;

s1=s1/10;

}

if(s1==1||s2==1)

{

System.out.println("magic number");

}

else

{

System.out.println("normal number");

}

}

}

program11;

import java.util.Scanner;

public class Program11 {

public static void main(String[] args) {

int ci, i, j, k, l=0;

String str, str1;

char c, ch;

Scanner scan = new Scanner(System.in);

System.out.print("Enter a String : ");

str=scan.nextLine();

i=str.length();

for(c='A'; c<='z'; c++)

{

k=0;

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

{

ch = str.charAt(j);

if(ch == c)

{

k++;

}

}

if(k>0)

{

System.out.println("The character " + c + " has occurred for " + k + " times");

}

}

}

}

Program 10

import java.util.Scanner;

public class Program10

{

public static void main(String args[])

{

int range, i, j, k=1;

Scanner scan = new Scanner(System.in);

System.out.print("Enter Range (Upto How Many Line ?) : ");

range = scan.nextInt();

System.out.print("Floyd's Triangle :\n");

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

{

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

{

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

}

System.out.println();

}

}

}

Program 09

import java.util.Scanner;

public class Program09 {

public static void main(String[] args) {

int n, max;

Scanner s = new Scanner(System.in);

System.out.print("Enter number of elements in the array:");

n = s.nextInt();

int a[] = new int[n];

System.out.println("Enter elements of array:");

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

{

a[i] = s.nextInt();

}

max = a[0];

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

{

if(max < a[i])

{

max = a[i];

}

}

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

}

}

Program 08

public class Program 08{

public static void main(String[] args) {

int number = 2;

int count = 0;

long sum = 0;

while(count < 1000){

if(isPrimeNumber(number)){

sum += number;

count++;

}

number++;

}

System.out.println(sum);

}

private static boolean isPrimeNumber(int number){

for(int i=2; i<=number/2; i++){

if(number % i == 0){

return false;

}

}

return true;

}

Program07

public class Program07 {

int sum = 0;

public int getNumberSum(int number){

if(number == 0){

return sum;

} else {

sum += (number%10);

getNumberSum(number/10);

}

return sum;

}

public static void main(String a[]){

MyNumberSumRec mns = new MyNumberSumRec();

System.out.println("Sum is: "+mns.getNumberSum(223));

}

}

Program 06

public class Program06 {

public static void main(String[] args)

{

int n1=0,n2=1,n3,i,count=10;

System.out.print(n1+" "+n2);//printing 0 and 1

for(i=2;i<count;++i)//loop starts from 2 because 0 and 1 are already printed

{

n3=n1+n2;

System.out.print(" "+n3);

n1=n2;

n2=n3;

}

}}

**Program 05**

public class Program05 {

public static void main(String[] args) {

int numbers[] = {6,3,37,12,46,5,64,21};

int highest = 0;

int second\_highest = 0;

for(int n:numbers){

if(highest < n){

second\_highest = highest;

highest =n;

} else if(second\_highest < n){

second\_highest = n;

}

}

System.out.println("First Max Number: "+highest);

System.out.println("Second Max Number: "+second\_highest);

}

}

Program 04

import java.util.Arrays;

public class Program04 {

private Object[] myStore;

private int actSize = 0;

public MyArrayList(){

myStore = new Object[10];

}

public Object get(int index){

if(index < actSize){

return myStore[index];

} else {

throw new ArrayIndexOutOfBoundsException();

}

}

public void add(Object obj){

if(myStore.length-actSize <= 5){

increaseListSize();

}

myStore[actSize++] = obj;

}

public Object remove(int index){

if(index < actSize){

Object obj = myStore[index];

myStore[index] = null;

int tmp = index;

while(tmp < actSize){

myStore[tmp] = myStore[tmp+1];

myStore[tmp+1] = null;

tmp++;

}

actSize--;

return obj;

} else {

throw new ArrayIndexOutOfBoundsException();

}

}

public int size(){

return actSize;

}

private void increaseListSize(){

myStore = Arrays.copyOf(myStore, myStore.length\*2);

System.out.println("\nNew length: "+myStore.length);

}

public static void main(String a[]){

MyArrayList mal = new MyArrayList();

mal.add(new Integer(2));

mal.add(new Integer(5));

mal.add(new Integer(1));

mal.add(new Integer(23));

mal.add(new Integer(14));

for(int i=0;i<mal.size();i++){

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

}

mal.add(new Integer(29));

System.out.println("Element at Index 5:"+mal.get(5));

System.out.println("List size: "+mal.size());

System.out.println("Removing element at index 2: "+mal.remove(2));

for(int i=0;i<mal.size();i++){

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

}

**Program 02**

java.util.Scanner;

public class Program02

{

public static void main(String args[])

{

int num, rev=0, rem;

Scanner scan = new Scanner(System.in);

System.out.print("Enter a Number : ");

num = scan.nextInt();

while(num != 0)

{

rem = num%10;

rev = rev\*10 + rem;

num = num/10;

}

System.out.print("Reverse = " +rev);

}

}

**Program01**

public class FindDuplicateFromSetOfNumbers {

public static void main(String[] args) {

int[] intArray= {1,2,3,4, 5, 6, 7, 7};

int sum = 0;

int partialSum = 0;

for (int i=0; i<intArray.length; i++){

sum=sum+i;

}

for(int j=0; j<intArray.length-1; j++){

partialSum = partialSum+j;

}

int duplicateNumber = sum-partialSum;

System.out.println(“The duplicate number in the numbers: “+duplicateNumber);

}

}