**Write a Java program to find the largest element in an array.**

class largearray

{

public static void main(String args[])

{

int a[]=new int[]{25,52,61,18,28};

int max=a[0];

for(int i=1; i<a.length;i++)

{

if (a[i]>max)

max=a[i];

}

System.out.println("Largest Element is: " +max);

}

}

**OUTPUT:**

D:\Hemalatha>javac largearray.java

D:\Hemalatha>java largearray

Largest Element is: 61

**Write a Java program to add two matrices.**

class Matrix

{

public static void main(String args[])

{

int i,j;

int a[][]={{2,4,6},{8,9,1}};

int b[][]={{3,1,5},{6,4,5}};

int c[][]=new int[2][3];

for (i=0;i<2;i++)

for (j=0;j<3;j++)

c[i][j]=a[i][j]+b[i][j];

System.out.println("Sum of two matrices:");

for (i=0; i<2; i++)

{

for (j=0;j<3;j++)

{

System.out.println(c[i][j] +" ");

}

System.out.println();

}

}

}

**OUTPUT:**

D:\Hemalatha>javac Matrix.java

D:\Hemalatha>java Matrix

Sum of two matrices:

5

5

11

14

13

6

**Write a java program to illustrate String class and its methods.**

import java.lang.\*;

class stdemo

{

static String st1="Sonu Nigam";

static String st2="COMPUTER SCIENCE";

static String pt1,pt2,pt3,pt4,pt5;

public static void main(String args[])

{

int lst1=st1.length();

int lst2=st2.length();

pt1=st1.toUpperCase();

pt2=st2.toLowerCase();

pt3=st2.replace('T','L');

pt4=st1.concat(st2);

pt5=st2.substring(6);

System.out.println("Given two strings "+st1+" and "+st2);

System.out.println("\n");

System.out.println(st1+" length is="+lst1);

System.out.println("\n");

System.out.println(st2+" length is="+lst2);

System.out.println("\n");

System.out.println(st1+ " in uppercase is: "+pt1);

System.out.println("\n");

System.out.println(st2+ " in lowercase is: "+pt2);

System.out.println("\n Every T is replaced with L as: "+pt3);

System.out.println("\n Two strings joined as: "+pt4);

System.out.println("\n Substring of "+st2+" from 6th char is: "+pt5);

}

}

**OUTPUT:**

D:\Hemalatha>javac stdemo.java

D:\Hemalatha>java stdemo

Given two strings Sonu Nigam and COMPUTER SCIENCE

Sonu Nigam length is=10

COMPUTER SCIENCE length is=16

Sonu Nigam in uppercase is: SONU NIGAM

COMPUTER SCIENCE in lowercase is: computer science

Every T is replaced with L as: COMPULER SCIENCE

Two strings joined as: Sonu NigamCOMPUTER SCIENCE

Substring of COMPUTER SCIENCE from 6th char is: ER SCIENCE

**Write a java program to illustrate StringBuffer class and its methods**.

import java.lang.\*;

class stdemo2

{

static StringBuffer st1=new StringBuffer("JAVA Language");

static StringBuffer pt5=new StringBuffer(" & is platform-independent");

public static void main(String args[])

{

System.out.println("Given string is: "+st1);

int lst1=st1.length();

System.out.println("Length of given string is:"+lst1);

st1.insert(5,"a Evolutionary ");

System.out.println("\n String after inserting a substring:");

System.out.println(st1);

st1.setCharAt(7,'R');

st1.insert(8,'e');

System.out.println("\n modified string after replacing a character:");

System.out.println(st1);

st1.append(pt5);

System.out.println("\n modified string after appending substring:");

System.out.println(st1);

}

}

**OUTPUT:**

D:\Hemalatha>javac stdemo2.java

D:\Hemalatha>java stdemo2

Given string is: JAVA Language

Length of given string is:13

String after inserting a substring:

JAVA a Evolutionary Language

modified string after replacing a character:

JAVA a Revolutionary Language

modified string after appending substring:

JAVA a Revolutionary Language & is platform-independent

**Write a java program to illustrate Encapsulation.**

class students

{

private String name;

public String getname()

{

return name;

}

public void setName(String name)

{

this.name=name;

}

}

class Encapsul

{

public static void main(String args[])

{

students s=new students();

s.setName("Ramya");

System.out.println(s.getname());

}

}

**OUTPUT:**

D:\Hemalatha>javac Encapsul.java

D:\Hemalatha>java Encapsul

Ramya