1)Array List program

import java.util.\*;

public class Main

{

public static void main(String[] args) {

System.out.println("Hello World");

ArrayList<String> al = new ArrayList<String>();

ArrayList<Integer> ai = new ArrayList<Integer>();

ArrayList<Float> af = new ArrayList<Float>();

System.out.println("the size of array list is "+ al.size());

al.add("malini");

al.add("pramika");

al.add("chocolate");

al.add("moon");

al.add(3,"star");

System.out.println("the size of array list is "+ al.size());

System.out.println("elements of al are "+ al);

al.remove("moon");

al.remove("star");

System.out.println("the size of array list is "+ al.size());

System.out.println("elements of al are "+ al);

ai.add(5);

ai.add(10);

System.out.println("the size of array list is "+ ai.size());

System.out.println("elements of ai are "+ ai);

af.add(10.0f);

af.add(11.2f);

System.out.println("the size of array list is "+ af.size());

System.out.println("elements of af are "+ af);

}

}

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2) Anonymous program

class Outer{

int a;

void test(){

Inner in =new Inner();

in.display();

}

Outer(int a){

this.a=a;

}

class Inner{

void display(){

System.out.println("this value is a :"+a);

}

}

void localTest(){

class LocalInner{

void test(){

System.out.println("A is accessed in local class "+a);

}

}

LocalInner li=new LocalInner();

li.test();

}

}

abstract class AnnoTest{

public abstract void print();

}

public class clas{

public static void main(String args[]){

Outer out=new Outer(10);

out.test();

out.localTest();

Outer.Inner in=new Outer(5).new Inner();

in.display();

AnnoTest at=new AnnoTest(){

public void print(){

System.out.println("it is an Anonoymous class method ");

}

};

at.print();

}

}

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3)Local inner class program

class Outer{

int a;

void test(){

Inner in =new Inner();

in.display();

}

Outer(int a){

this.a=a;

}

class Inner{

void display(){

System.out.println("this value is a :"+a);

}

}

void localTest(){

class LocalInner{

void test(){

System.out.println("A is accessed in local class "+a);

}

}

LocalInner li=new LocalInner();

li.test();

}

}

public class clas{

public static void main(String args[]){

Outer out=new Outer(10);

out.test();

out.localTest();

Outer.Inner in=new Outer(5).new Inner();

in.display();

}

}

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