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**29--09--2020**

**1.**

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("The value of a is "+a);

}

}

void localTest(){

class LocalInner{

void test() {

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

}

}

LocalInner li = new LocalInner();

li.test();

}

}

public class Main{

public static void main(String args[]){

Outer out = new Outer(20);

out.test();

out.localTest();

Outer.Inner in = new Outer(8).new Inner();

in.display();

}

}

**2.Anonimus Class**

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("The value of a is "+a);

}

}

void localTest(){

class LocalInner{

void test() {

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

}

}

LocalInner li = new LocalInner();

li.test();

}

}

abstract class AnTest {

public abstract void print();

}

public class Main{

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();

AnTest at = new AnTest() {

public void print() {

System.out.println("It is an Anonymous class method");

}

};

at.print();

}

}

**3.**

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("Harish");

al.add("naga");

al.add("siva");

al.add("mana");

al.add(3,"noyal");

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

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

al.remove("noyal");

al.remove("siva");

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(18.0f);

af.add(21.2f);

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

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

}

}