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**OUESTION 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 accessed in local class"+a);

}

}

LocalInner li = new LocalInner();

li.test();

}

}

Question.2

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 accessed in local class"+a);

}

}

LocalInner li = new LocalInner();

li.test();

}

}

abstract class AnnoTest{

public abstract void print();

}

public class MyClass{

public static void main(String args[]){

Outer out =new Outer (15);

out.test();

out.localTest();

Outer.Inner in = new Outer(6).new Inner();

in.display();

AnnoTest at = new AnnoTest(){

public void print(){

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

}

};

at.print();

}

}

public class MyClass{

public static void main(String args[]){

Outer out =new Outer (15);

out.test();

out.localTest();

Outer.Inner in = new Outer(6).new Inner();

in.display();

}

}

QUESTION 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("manoj");

al.add("sandeep");

al.add("deepu");

al.add("manu");

al.add(3,"shyam");

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

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

al.remove("deepu");

al.remove("manoj");

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);

}

}