STATIC CLASS:

Class can’t be declared as static.

STATIC VARIABLE:

public class StaticVar{

    String name;

    int id;

    static int counter = 0;

    StaticVar(String n, int i){

        counter++;

        this.name = n;

        this.id = i;

    }

    StaticVar(){

        counter++;

    }

}

public class StaticVarMain{

    public static void main(String []args){

        StaticVar s1 = new StaticVar("Ali",123);

        StaticVar s2 = new StaticVar();

        System.out.println(s1.name + s1.id);

        System.out.println(s2.name + s2.id);

        System.out.println(StaticVar.counter++);

    }

}

OUTPUT:



STATIC METHOD OVERRIDING:

public class SumParent{

    static int add(int a, int b){

        System.out.println("parent");

        int c = a + b;

        return c;

    }

}

class SumChild extends SumParent{

    String name;

    static int add(int a, int b){

        System.out.println("child");

        int c = a + b;

        return c;

    }

    public static void main(String[] args){

        SumChild ex2 = new SumChild();

        SumParent ex3 = new SumChild();

        SumParent ex4 = new SumParent();

        System.out.println(ex2.add(10,12));

        System.out.println(ex3.add(15,15));

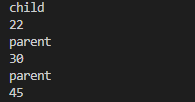
        System.out.println(ex4.add(30,15));

    }

}

OUTPUT:

If the child object is created with parent reference, the parent static method will be called. (eg: ex3)



STATIC METHOD OVERLOADING:

public class Sum{

    static int add(int a, int b){

        System.out.println("int");

        int c = a + b;

        return c;

    }

    static double add(double a, double b){

        System.out.println("double");

        double c = a + b;

        return c;

    }

    public static void main(String[] args){

        Sum ex1 = new Sum();

        Sum ex2 = new Sum();

        Sum ex3 = new Sum();

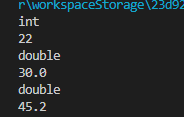
        System.out.println(ex1.add(10,12));

        System.out.println(ex2.add(15.0,15));

        System.out.println(ex3.add(30.0,15.2));

    }

}

OUTPUT:

STATIC BLOCK:

public class StaticBlock{

    static int myStaticVariable;

    static {

        myStaticVariable = 42;

        System.out.println("Static block executed.");

    }

    public static void main(String[] args) {

        System.out.println("Value of myStaticVariable: " + myStaticVariable);

    }

}

OUTPUT:

