Day-9

Inhertience:

import java.util.\*;

class GF{

GF()

{

System.out.println("silver");

}

}

class F extends GF{

F()

{

System.out.println("gold");

}

}

class S extends F{

S()

{

System.out.print("diamond");

}

}

public class Main {

public static void main(String[] args) {

S k = new S();

}

}

import java.util.\*;

class parent{

void add(int a,int b)

{

System.out.println(a+b);

}

}

class child2 extends parent{

void sub(int a,int b)

{

System.out.println(a-b);

}

}

class child3 extends child2{

void mul(int a,int b)

{

System.out.println(a\*b);

}

}

class child4 extends child3{

void div(int a,int b)

{

System.out.println(a/b);

}

}

public class Main {

public static void main(String[] args) {

child4 k = new child4();

k.add(1,2);

k.sub(1,2);

k.mul(1,2);

k.div(7,6);

}

}

Function overloading:

class main{

public static void main(String[] args)

{

int a=10;

int b=34;

int c=97;

main(a,b);

main(a,b,c);

}

public static void main(int n,int m)

{

System.out.println(n+m);

}

public static void main(int n,int m,int k)

{

System.out.println(n\*m\*k);

}

}

class calc{

int sum(int n)

{

return (n\*n);

}

int sum(int n,int m)

{

return (n+m);

}

float sum(float n,float m)

{

return (n/m);

}

}

class main{

public static void main(String[] args)

{

calc d=new calc();

System.out.println(d.sum(42.3f,9.8f));

System.out.println(d.sum(2,8));

System.out.println(d.sum(9));

}

}

Overriding in runtime compiler:

class MATH{

public static void func1(int n,int m)

{

System.out.println(n+m);

}

}

class M extends MATH{

//@Override

public static void func1(int n,int m)

{

System.out.println(n\*m);

}

}

class main{

public static void main(String[] args)

{

MATH ob = new M();

ob.func1(3,9);

}

}