Java Polymorphism

1 Constructor Overloading

2 Method overloading

3 Operator overloading

4 Method overriding

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operator overloading

+ concatenates and + adds

psvm

int a =2;b=3;

sout("sum="+(a+b));

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**Method Overloading**

class Area {

public double calcArea(int r){

return 3.14\*r\*r;

}

public double calcArea(int a ,int b){

return l\*b;

}

}

psvm

Area a =new Area();

sout("circle area is="+a.calcArea(5));

sout("rectangle area is="+a.calcArea(10));

**METHOD OVERRIDING**

**Son**

**Father**

**Grandfather**

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class Grandfather {

void run(){

sout("Grandfather cannt run");

}

}

class Father extends Grandfatehr {

@override

void run(){

super.run();

sout("father can run");

}

}

class Son extends Father {

@override

void run(){

super.run();

sout("son can run");

}

}

psvm

son s =new son();

s.run();

**Random number generation**

Random r =new Random();

sout(r.nextInt(2));

sout(r.nextInt(7));

sout(r.nextInt(10));

sout(r.nextInt(100));

sout(r.nextInt(1000));

sout(r.nextInt(50000));

sout(r.nextInt());

**Display current date and time**

**psvm**

Date d =new Date();

sout(new SimpleDateFormat(“yyyy-MM-dd”).format(d));

“E yyyy-mm—dd ‘at’ hh:mm:ss a 222”

Mon 2017-08-25 at 14:30:58 PM NPT