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seholas- 192120069 Date- 5/03/2021. semester - D

Memod Overloading? same as constructors, or can also overload methods. Londitions for method overloading are!

1. Methods to be overloaded must have the same name.

2. All methods must have different arguments l'ermer different no. I parameters or different type of Parameter).

Class

class Rectangle 2

Public state void prins areafisher, المحرية eyetem. out. prentin (x my);

Public static void ponint Anea (intx) { system. out. printer (x*x);

Public static void print Areal double x, system. out. println (x *y);

Public static void Prent Area (double x) {

System. out. print (x*x);

}

Public Static void main (String [] angs) £

Print Area (2,4);

Print Area (2,51);

Print Area (10);

Print Area (2,5);

3

Here we have defined fore methods with the same mane 'print Area' but different parameters.

In the main class, firstly the function printIn the main class, firstly the function printArea is lasted with 2 and 4 passed to it. cince,

Area is lasted with 2 and 4 passed to it. cince,

boin 2 and 4 are integers, so the method named

boin 2 and 4 are integers, so the method named

(eit x, enty) evil be caused.

Method overniding !

Public void Sound () {

Public void Sound () {

Syetem. out. print In ["This is the

Syetem. out. print In ["This is the

Parcent class");

class pog extends Animals 2

Public void sound () 2 System : out . printin par Dogs Bark");

٦

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class on \$1

Public State vota main (string[] angs) {

Dogs d = new Bogs !);

disound ();

5

3.

To the above Example, the Class Dogs and the panent class ! Animals! than the sound same method "public void sound!" when the object it of the class Dogs call this method, object it is method in the child class! Dogs! then the method in the child class class. it called, not that in the panent class. Thus, the method in the child class overaily. Thus, the method in the child class overaily.

Java program to prent counting 1 to 100: it trabular form! import dava. 10. # 3 class Tabular form &

Public static void main (String [] angs) {

eiit i, d;

for (i=1; i<=10; i+1) {

for (i=1=0; d<=0; +y);

Page 4 system out print the (1 * 10 + 1)5 System. out , printly (" ");

8.3 The process by which one class acquires the Properties (data member) and functionalities (methods) of another class is cassed inheritance. The aim of ûhenikace à to provide the rensability of code so that a class has to write only the unique features and orest of the lammon properties and function alikes can be extended from another class,

ewild close the class in Known as child class, Sub class on derived class.

Parent claret The class whose properties and function outles are used (inhersted) by another class is known as parient class, super class, or Base class.

the public void show () { systemout prinin (unumbers are 4 +x+","+y); elans B Jexnends Af Pages void get (ont a, intb) enperazas super y 2 b 3

elons test ?

Public static void main (string [] angs)

& B. Obj = new B 5

Obj. get (10,20); Obj. show (); 3.3.

Bry 2D Annay & No Hidemenstonal Annays can be defined in sumple words as arenays of annays. Data in multidien ensional annays our stoned in tabular form (in row mayor order).

int [][] two Dannay = new int [10][2];

import java. 10. *;

class square of Matrix of Static void prior Matrix (int M[][],

int sow, int col)

1 fon (låt 120 31 < row 31++) 2 · for (w+1=0) (col 3)++) { System. ont. Print (M[i][])4 44)

System , out print m ();

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Sehrlar 19212069.

Static void no Hiply Matrix (int rows, coll, int ACICI, int rows, int crez in + B[][]) d wit is d, K; if (sow 2 ! = cot 1) 2. Systemiout. printin (" Multiplication lannof be done"); wit c[][] = new wit [nw 1] [col2]; for (it 120; 1< 5001; 1+4) of for 120 3 / (cot 2 3 / ++) { for (K= 0; K< 80W2 ; K++) & e[;][] + = A[] [x] * 8 [x][); 2 System. out. printher ("Resoltent Matrix"); Print Matrix (C) rowl, co12); Public Static vold main (String Clargs) & mt row 1 = 4, coll = 3, row 2 = 3, cole = 43 in ACJCJ= 9 21,1,13, 1 212,23,

£ 3,3,38,

for 4, 4) 3 ;

 $\frac{\text{page 2}}{\text{ent B[][]}} = \frac{\text{page 2}}{\text{d} 1, 1, 1, 1, 1}}$ $\frac{\{2, 2, 1, 2, 2\}}{\{4, 8, 6, 7, 3\}}$

muttiply Matrix (sow1, e11, A', sow2, L12,8);

Si operator precedence determines the order in which the operators in an expression are evaluated -

The table below lists the precidence of operators in Java; higher it appear in the table, the higher its precedence -

openators

Precedence

Precedence

Precedence

Precedence

Precedence

Precedence

Precedence

Precedence

2) Priefix increment and | ++, --, +, -, ~,!
deene ment, and

unary *, 1, 1,

5) snift ... (<, >>, >>>

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operators	Precedence
b) relational	<,7, <=,>=, instance of
7) equality	==,!=
8) bitwin AND	2
g) bravia excluive OR	^
(0) bitain incluive OR	1
11) lyical AND	&&
12) logical OR	, ,
193) Jennary	?:
14) axignment	s) +=,+=, *=, !=, %=, 8=, ^=, !=, <<=, >?=, >??=.