GHI CHÚ TRONG GIỜ LÝ THUYẾT

Java - 22KTPM3 - HTThanh

(Updated: Dec 12, 2024)

# W10 - Networking Programming - 2024-12-12

## Notes

# W09 - Multithreaded Programming - 2024-12-05

## Notes

# W08 - JDBC - Hibernate - 2024-11-21

## Notes

1. download và cài đặt database server: mysql server

2. yaml

3. db client

Table Plus

Navicat

Data Grip

3 layers

Layer 1: presentation layer

Layer 2: bus => business logic layer

Layer 3: dao => data access layer

package: dto => data transfered object => pojo => bean

# W07 - Java Swing - 2024-11-14

# W06 - Generic - Collections - 2024-11-07

## Notes

# W05 - IO - 2024-10-31

## Notes

None

# W04 - Exception Handling - 2024-10-24

## Notes

None

# W03 - OOP - 2024-10-17

## Notes

Sup superOb = new Sup();

Sub1 subOb1 = new Sub1();

Sub2 subOb2 = new Sub2();

// Đây ko phải là ví dụ về đa hình

subOb1.who();

subOb2.who();

// Đây mới là ví dụ về đa hình

superObj = subOb1;

superObj.who();

superObj = subOb2;

superObj.who();

@Override

double area(){

return width \* height / 2;

}

double area(){

return width \* height / 2;

}

## Demo01.java

package W03;

public class Demo01 {

public static void main(String []args){

Vehicle vehicle1 = new Vehicle();

Vehicle vehicle2 = new Vehicle(7, 16, 21);

Vehicle vehicle3 = new Vehicle(vehicle2);

Vehicle vehicle4 = vehicle2.clone();

vehicle4 = vehicle1;

vehicle1.display();

vehicle4.display();

vehicle1.passengers = 10;

vehicle1.display();

vehicle4.display();

}

}

class Vehicle{

int passengers;

double fuelcap;

double mpg;

public Vehicle(){

passengers = 4;

fuelcap = 0;

mpg = 0;

}

public Vehicle(int p){

passengers = p;

fuelcap = 0;

mpg = 0;

}

public Vehicle(int p, double f, double m){

passengers = p;

fuelcap = f;

mpg = m;

}

public Vehicle(Vehicle v){

passengers = v.passengers;

fuelcap = v.fuelcap;

mpg = v.mpg;

}

public Vehicle clone(){

return new Vehicle(passengers, fuelcap, mpg);

}

public void display(){

System.out.println("Passengers: " + passengers);

System.out.println("Fuelcap: " + fuelcap);

System.out.println("MPG: " + mpg);

}

public int getPassengers(){

return passengers;

}

public void setPassengers(int p){

if(p <= 0) return;

passengers = p;

}

public double getFuelcap(){

return fuelcap;

}

public double getMpg(){

return mpg;

}

}

## Demo02.java

public class Demo02 {

public static void main(String []args){

TwoDShape [] arr = new TwoDShape[5];

arr[0] = new Triangle();

arr[1] = new Triangle();

arr[2] = new Rectangle();

arr[3] = new TwoDShape();

// Hiện tại đang có 4 class:

// TwoDShape, Triangle, Rectangle, Demo02

// a new class

// type: annoymous class

// dùng 1 chỗ duy nhất

arr[4] = new TwoDShape() {

@Override

public double area(){

return 0;

}

};

// Sau dòng code arr[4], sẽ có tổng 5 class:

// TwoDShape, Triangle, Rectangle, Demo02, annoymous class

}

}

abstract class TwoDShape{

double width;

double height;

abstract public double area();

}

class Triangle extends TwoDShape{

@Override

public double area(){

return width \* height / 2;

}

}

class Rectangle extends TwoDShape{

public double area(){

return width \* height;

}

}

# W02 - Control Statements - 2024-10-10

package W02;

import java.util.Scanner;

public class P01 {

public static void main(String[] args) {

// Scanner sc = new Scanner(System.in);

// int n;

// n = sc.nextInt();

// int[] a = new int[n];

// // for(int i=0; i<n; i++){

// // a[i] = sc.nextInt();

// // }

// for(int i=0; i<n; i++){

// System.out.print(a[i] + " ");

// }

// int n = 3;

// int []a;

// a = new int[n];

// a[0] = 10;

// a[1] = 20;

// a[2] = 30;

// // insert 100 at the end, append()

// int []b = new int[n+1];

// for(int i = 0; i < n; i++){

// b[i] = a[i];

// }

// b[n] = 100;

// n++;

// a = b;

// // insert 200 at the end

// b = new int[n+1];

// for(int i = 0; i < n; i++){

// b[i] = a[i];

// }

// b[n] = 200;

// n++;

// a = b;

// // insert 500 at the end

// b = new int[n\*2];

// for(int i = 0; i < n; i++){

// b[i] = a[i];

// }

// b[n] = 500;

// n++;

// int []a = new int [3];

// a[0] = 1;

// a[1] = 2;

// a[2] = 3;

// // f1(a);

// // System.out.print(a[0]);

// f2(a);

// System.out.print(a[0]);

// final int n = 3;

// n = 30;

// String s1 = "Hello";

// // s1[0] = 'Z';

// // Hello => Zello

// // s1 = "Zello";

// StringBuilder sb = new StringBuilder(s1);

// sb.setCharAt(0, 'Z');

// s1 = sb.toString();

// System.out.print(s1);

// String s1 = "Hello";

// System.out.print("Hello: " + s1.getIdentityHashCode());

// s1 = "Zello";

// System.out.print("Zello: " + s1.getIdentityHashCode());

// String s1 = "Hello";

// s1 = s1.replace('H', 'Z');

// System.out.print(s1);

int i;

for(i = 1; i < 4; i++)

{

one:

{

two:

{

three:

{

System.out.println("\ni is " + i);

if(i == 1) break one;

if(i == 2) break two;

if(i == 3) break three;

// this is never reached

System.out.println("won't reach.");

}

System.out.println("After block three");

}

System.out.println("After block two.");

}

System.out.println("After block one.");

}

System.out.println("After for.");

}

static void f2(int []x){

x = new int[3];

x[0] = 100;

}

static void f1(int []x){

x[0] = 100;

}

}

# W01 - Introduction - 2024-10-03

compiler

intepreter

d = 0;

n = 10;

// A

// d != 0 && n % d == 0

// false && n % d == 0

// false

if(d != 0 && n % d == 0){

System.out.print("YES");

}

// B

// n % d == 0 && d != 0

// ERRROR

if(n % d == 0 && d != 0){

System.out.print("YES");

}

false && condition2

false

true || condition2

true

if(a != null && a.length > 0 && a[0] == 10){

System.out.print("ABC");

}

if(a[0] == 10){

System.out.print("ABC");

}