Limbajul: Java

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Ce se afiseaza la rularea codului urmator?

import java.lang.reflect.\*;  
class Dog {  
private String name;  
private String nickname;

public Dog(String name, String nickname) { this.name = name; this.nickname =nickname; }

public String getName() { return name; }

public static List<String> getField(Field[] fields){  
 List <String> fieldsName = new ArrayList<>();  
 for (Field field: fields)  
 fieldsName.add(field.getName());  
 return fieldsName;  
}  
public void printThis() {  
 Object dog = new Dog("Dolly","Dolliuca");  
 Field[] fields = dog.getClass().getDeclaredFields();

if (!fields[0].getName().isEmpty()) {  
 System.out.println(fields[0].getName());

}  
 System.out.println(fields[1].getName());  
 if (getName().isEmpty()) System.out.println("This dog doesn't have a name");  
 System.out.println(getField(fields));  
}  
}  
public class Main {  
public static void main(String[] args) {  
Dog dog = new Dog("", "Rexica");  
dog.printThis();  
System.out.println(dog.getName());  
}  
}

Variante de raspuns:

a) name nickname [name,nickname] [ ]

b) Dolly Dolliuca [name,nickname]

c) name nickname This dog doesn’t have a name [name,nickname]

d) Rexica This dog doesn’t have a name [ , Rexica ]

Raspuns correct: c) name nickname This dog doesn’t have a name [name, nickname]

Justificare:

La primul "print" ni se cere afisarea vectorului "fields", stim din cursul 6-7 ca metoda getDeclaredFields() returneaza array-ul de obiecte de tip Field reprezentand toate campurile declarate ale clasei noastre "Dog" adica name si nickname deci fields[0] va fi name si fields[1] va fi nickname, metoda getName() regasita in clasa "Dog", sa nu o incurcam cu cea predefinita de Reflection, returneaza "name"-ul cainelui din Main, cum Rexica nu are nume, se va afisa: This dog doesn't have a name. Apoi getField(fields) returneaza denumirile campurilor clasei ca array adica [name,nickname], iar ultimul "print" cel ce se afla in Main se afiseaza un string vid pentru ca Rexica nu are nume deci practic nu se afiseaza nimic.

Concepte din curs: reflection (curs 7)

Dificultate: Medium