import java.util.ArrayList;

import java.util.List;

class Fruit{

String color;

Fruit(){}

public Fruit(String color) {

this.color = color;

}

@Override

public String toString() {

return "Fruit{" + "color='" + color + '}';

}

}

class Apple extends Fruit{

public Apple(String color) {

super(color);

}

@Override

public String toString() {

return super.toString()+" it's an apple";

}

}

class Pear extends Fruit{

public Pear(String color) {

super(color);

}

@Override

public String toString() {

return super.toString()+" it's a pear";

}

}

class FruitList<T>{

private List<T> list= new ArrayList<>();

public void add(T entity){

list.add(entity);

}

public List<T> getList(){

return list;

}

}

public class Main {

public static void main(String[] args) {

FruitList<Apple> appleList=new FruitList<>();

appleList.add(new Apple("Red"));

FruitList<Pear> pearList=new FruitList<>();

pearList.add(new Pear("Yellow"));

FruitList<Fruit> fruitList=appleList;

for (Fruit f:fruitList.getList()) {

System.out.println(f);

}

FruitList<Fruit> fruitList2=pearList;

for (Fruit f:fruitList2.getList()) {

System.out.println(f);

}

}

}

Student propunător: Lupaș Alexandra

Grupa: 224

Email: lair2334@scs.ubbcluj.ro

Ce se afișează la rularea codului?

Variante de răspuns:

a)Fruit{color=Red}

Fruit{color=Yellow}

b)eroare

c)Fruit{color=Red} it’s an apple

Fruit{color=Yellow} it’s a pear

d) it’s an apple

it’s a pear

Răspuns corect: b) eroare

Explicație: Tipurile Apple și Pear sunt derivate din Fruit, dar tipurile FruitList<Pear>, respectiv FruitList<Apple> nu sunt derivate din FruitList<Fruit>, așadar nu se pot face atribuirile FruitList<Fruit>=FruitList<Apple>, respectiv FruitList<Fruit>=FruitList<Pear>.