|  |
| --- |
| package job; |
|  |  |
|  | import java.util.HashSet; |
|  | import java.util.Set; |
|  |  |
|  | public class Main { |
|  | public static void main(String[] args) { |
|  | // Создание объектов класса Laptop |
|  | Laptop hp\_pailion\_g6 = new Laptop("hp\_pailion\_g6", 16, "4k", |
|  | true, 500, "16", "Windows", "black"); |
|  | Brand brandHp = new Brand("HP", "U.S.A.", "AmericaLanguage"); |
|  | hp\_pailion\_g6.addBrand(brandHp); |
|  | Laptop hp\_galaxy\_x64 = new Laptop("hp\_galaxy\_x64", 14, "FullHD", |
|  | true, 500, "8", "Windows", "white"); |
|  | hp\_galaxy\_x64.addBrand(brandHp); |
|  | Laptop samsung\_a52 = new Laptop("samsung\_a52", 18, "FullHD", |
|  | true, 300, "8", "Windows", "black"); |
|  | Brand brandSamsung = new Brand("Samsung", "Korea", "KoreaLanguage"); |
|  | samsung\_a52.addBrand(brandSamsung); |
|  | Laptop samsung\_m31s = new Laptop("samsung\_m31s", 16, "4k", |
|  | false, 1000, "16", "Linux", "black"); |
|  | samsung\_m31s.addBrand(brandSamsung); |
|  | Laptop lenovo\_gtx76 = new Laptop("lenovo\_gtx76", 16, "FullHD", |
|  | true, 700, "8", "Windows", "white"); |
|  | Brand brandLenovo = new Brand("Lenovo", "China", "ChinaLanguage"); |
|  | lenovo\_gtx76.addBrand(brandLenovo); |
|  | Laptop macbook\_14pro = new Laptop("macbook\_14pro", 17, "4k", |
|  | false, 1000, "8", "ios", "white"); |
|  | Brand brandMacbook = new Brand("Apple", "U.S.A.", "AmericaLanguage"); |
|  | macbook\_14pro.addBrand(brandMacbook); |
|  | Laptop asus\_x515 = new Laptop("asus\_x515", 17, "FullHD", |
|  | true, 300, "4", "Windows", "black"); |
|  | Brand brandAsus = new Brand("Asus", "taiwan", "ChinaLanguage"); |
|  | asus\_x515.addBrand(brandAsus); |
|  | Laptop acer\_air5 = new Laptop("acer\_air5", 19, "FullHD", |
|  | true, 600, "8", "Windows", "black"); |
|  | Brand brandAcer = new Brand("Acer", "taiwan", "ChinaLanguage"); |
|  | acer\_air5.addBrand(brandAcer); |
|  | Laptop acer\_air6 = new Laptop("acer\_air6" ,18, "4k", |
|  | false, 500, "16", "Windows", "black"); |
|  | acer\_air6.addBrand(brandAcer); |
|  | Laptop acer\_a313 = new Laptop("acer\_a313", 16, "FullHD", |
|  | true, 500, "8", "Windows", "black"); |
|  | acer\_a313.addBrand(brandAcer); |
|  | // Создание множества |
|  | Set <Laptop> laptop = new HashSet<>(); |
|  | laptop.add(hp\_pailion\_g6); |
|  | laptop.add(hp\_galaxy\_x64); |
|  | laptop.add(samsung\_a52); |
|  | laptop.add(samsung\_m31s); |
|  | laptop.add(lenovo\_gtx76); |
|  | laptop.add(macbook\_14pro); |
|  | laptop.add(asus\_x515); |
|  | laptop.add(acer\_air5); |
|  | laptop.add(acer\_air6); |
|  | laptop.add(acer\_a313); |
|  | // создание нового объекта вызова методов |
|  | Laptop FilterLaptop = new Laptop(); |
|  | // вызов метода фильтрации по определеннеым параметрам |
|  | // System.out.println("по вашему запросу найдено: " + FilterLaptop.filter(laptop)); |
|  |  |
|  | // вызод метода фильтрации по заданным пользователем критериям |
|  | System.out.println(FilterLaptop.newFilter(laptop)); |
|  | } |
|  | } |

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| --- |
| package job; |
|  |  |
|  | import java.util.ArrayList; |
|  | import java.util.HashSet; |
|  | import java.util.List; |
|  | import java.util.Scanner; |
|  | import java.util.Set; |
|  |  |
|  | // Создание класса Laptop |
|  | public class Laptop { |
|  | // Создание поля на основе другого класса |
|  | private List<Brand> brands; |
|  | // Создание полей |
|  | private String model; |
|  | private float diagonal; |
|  | private String screenResolution; |
|  | private boolean dvdRom; |
|  | private int hardDisk; |
|  | private String operativeMemory; |
|  | private String operatingSystem; |
|  | private String color; |
|  | // Создание пустого конструктора для работы с методами |
|  | public Laptop() { |
|  | } |
|  | // Создание конструктора для создания экземпляров класса |
|  | public Laptop(String model, float diagonal, String screenResolution, boolean dvdRom, int hardDisk, |
|  | String operativeMemory, String operatingSystem, String color) { |
|  | this.brands = new ArrayList<>(); |
|  | this.model = model; |
|  | this.diagonal = diagonal; |
|  | this.screenResolution = screenResolution; |
|  | this.dvdRom = dvdRom; |
|  | this.hardDisk = hardDisk; |
|  | this.operativeMemory = operativeMemory; |
|  | this.operatingSystem = operatingSystem; |
|  | this.color = color; |
|  | } |
|  | // Создание методов get\set Для работы с private полями |
|  | public String getModel() {return model;} |
|  | public float getDiagonal() {return diagonal;} |
|  | public String getScreenResolution() {return screenResolution;} |
|  | public boolean isDvdRom() {return dvdRom;} |
|  | public int getHardDisk() {return hardDisk;} |
|  | public String getOperativeMemory() {return operativeMemory;} |
|  | public String getOperatingSystem() {return operatingSystem;} |
|  | public String getColor() {return color;} |
|  | // Создание метода для создания экземпляра другого класса, |
|  | // для того что бы работать с этими экземпляррами в данном классе |
|  | public void addBrand(Brand brand) { |
|  | brands.add(brand); |
|  | } |
|  | // создание метода фильтрации ноутбуков по критериям |
|  | public List<Laptop> filter(Set<Laptop> laptop) { |
|  | Scanner scan = new Scanner(System.in); |
|  | System.out.println("Здрасвуйте, Укажите каие параметры для ноут бука вы бы хотели иметь." + |
|  | "\nУкажите размер жёсткого диска в гб\nВналичии : 300,500,600,700,1000"); |
|  | String enterHardDisk = scan.nextLine(); |
|  | int intParseEnterHardDisk = Integer.parseInt(enterHardDisk); |
|  | System.out.println("Укажите количество оперативной памяти в Гб\nВналичии : 4, 8, 16 "); |
|  | String enterOperativeMemory = scan.nextLine(); |
|  | System.out.println("Укажите операционную систему\nВналичии : Linux, ios, Windows"); |
|  | String enterOperatingSystem = scan.nextLine(); |
|  | System.out.println("Укажите цвет ноутбука\nВналичии : black, white"); |
|  | String enterColor = scan.nextLine(); |
|  |  |
|  | List<Laptop> listLaptop = new ArrayList<>(); |
|  | for (Laptop tempLaptop : laptop) { |
|  | if (intParseEnterHardDisk == tempLaptop.hardDisk) { |
|  | if (enterOperativeMemory.equals(tempLaptop.operativeMemory)) { |
|  | if (enterOperatingSystem.equals(tempLaptop.operatingSystem)) { |
|  | if (enterColor.equals(tempLaptop.color)) { |
|  | listLaptop.add(tempLaptop); |
|  | } |
|  | } |
|  | } |
|  | } |
|  | } |
|  | return listLaptop; |
|  | } |
|  |  |
|  | // создание метода фильтрации ноутбуков по выборочной критериям |
|  | public Set<Laptop> newFilter(Set<Laptop> laptop) { |
|  | Scanner scan = new Scanner(System.in); |
|  | Set<Laptop> listLaptop = new HashSet<>(laptop); |
|  |  |
|  | System.out.println("Здрасвуйте, Укажите номер или номера критериев фильрации ноутбуков," + |
|  | "\n1. Size hard disk\n2. Size operatyvi memory\n3. Operating system\n4. Color"); |
|  | String userRequest = scan.nextLine(); |
|  |  |
|  | for (int i = 0; i < userRequest.length(); i++) { |
|  | if(1 == Character.getNumericValue(userRequest.charAt(i))) { |
|  | System.out.println("Укажите размер жёсткого диска в гб\nВналичии : 300,500,600,700,1000"); |
|  | String enterHardDisk = scan.nextLine(); |
|  | int intParseEnterHardDisk = Integer.parseInt(enterHardDisk); |
|  | for (Laptop tempLaptop : laptop) { |
|  | if (intParseEnterHardDisk != tempLaptop.hardDisk){ |
|  | listLaptop.remove(tempLaptop); |
|  | } |
|  | } |
|  | } |
|  |  |
|  | if(2 == Character.getNumericValue(userRequest.charAt(i))){ |
|  | System.out.println("Укажите количество оперативной памяти в Гб\nВналичии : 4, 8, 16 "); |
|  | String enterOperativeMemory = scan.nextLine(); |
|  | for (Laptop tempLaptop : laptop) { |
|  | if ((enterOperativeMemory.equals(tempLaptop.operativeMemory)) == false) { |
|  | listLaptop.remove(tempLaptop); |
|  | } |
|  | } |
|  | } |
|  |  |
|  | if(3 == Character.getNumericValue(userRequest.charAt(i))){ |
|  | System.out.println("Укажите операционную систему\nВналичии : Linux, ios, Windows"); |
|  | String enterOperatingSystem = scan.nextLine(); |
|  | for (Laptop tempLaptop : laptop) { |
|  | if ((enterOperatingSystem.equals(tempLaptop.operatingSystem) == false)) { |
|  | listLaptop.remove(tempLaptop); |
|  | } |
|  | } |
|  | } |
|  |  |
|  | if(4 == Character.getNumericValue(userRequest.charAt(i))){ |
|  | System.out.println("Укажите цвет ноутбука\nВналичии : black, white"); |
|  | String enterColor = scan.nextLine(); |
|  | for (Laptop tempLaptop : laptop) { |
|  | if ((enterColor.equals(tempLaptop.color)) == false) { |
|  | listLaptop.remove(tempLaptop); |
|  | } |
|  | } |
|  | } |
|  | } |
|  | return listLaptop; |
|  | } |
|  |  |
|  | // метод toString, выводит на экран данные объекта |
|  | @Override |
|  | public String toString() { |
|  | return "\nLaptop -> " + model + "\nbrands = " + brands + ",\ndiagonal = " + diagonal + ",\nscreenResolution = " |
|  | + screenResolution |
|  | + ",\ndvdRom = " + dvdRom + ",\nhardDisk = " + hardDisk + ",\noperativeMemory = " + operativeMemory |
|  | + ",\noperatingSystem = " + operatingSystem + ",\ncolor = " + color + "\n"; |
|  | } |
|  |  |
|  | } |

Give feedback

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| --- |
| package job; |
|  |  |
|  | public class Brand { |
|  | private String brand; |
|  | private String country; |
|  | private String language; |
|  |  |
|  | public Brand(String brand, String country, String language){ |
|  | this.brand = brand; |
|  | this.country = country; |
|  | this.language = language; |
|  | } |
|  |  |
|  | public String getBrand() {return brand;} |
|  | public String getCountry() {return country;} |
|  | public String getLanguage() {return language;} |
|  |  |
|  | @Override |
|  | public String toString() { |
|  | return "Brand [brand= " + brand + ", country= " + country + ", language= " + language + "]"; |
|  | } |
|  | } |
|  |  |