import java.util.HashMap;

import java.util.Scanner;

import java.util.Set;

class ProductClass {

private

String name;

int amount;

int code;

String address;

int pincode;

int productid;

public int getProductid() {

return productid;

}

public void setProductid(int productid) {

this.productid = productid;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public int getAmount() {

return amount;

}

public void setAmount(int amount) {

this.amount = amount;

}

public int getCode() {

return code;

}

public void setCode(int code) {

this.code = code;

}

public String getAddress() {

return address;

}

public void setAddress(String address) {

this.address = address;

}

public int getPincode() {

return pincode;

}

public void setPincode(int pincode) {

this.pincode = pincode;

}

}

public class Client extends ProductClass {

public void addProduct() {

Scanner sc = new Scanner(System.in);

System.out.println("Enter a Product id");

int n = sc.nextInt();

sc.nextLine();

setProductid(n);

System.out.println("Enter Name of product");

String name = sc.nextLine();

setName(name);

System.out.println("Enter the amount");

int amount = sc.nextInt();

setAmount(amount);

System.out.println("Enter the code for product");

int code = sc.nextInt();

sc.nextLine();

setCode(code);

System.out.println("Enter address");

String address = sc.next();

setAddress(address);

System.out.println("Enter Pincode");

int pincode = sc.nextInt();

setPincode(pincode);

}

public void Update(Client l) {

l.addProduct();

}

@Override

public String toString() {

return "Product id" + getProductid() + "Product Name " + getName() + "\n" + "Price " + getAmount() + "\n"

+ "Product Code " + getCode() + "\n" + "Address " + getAddress() + "\n" + "Pincode " + getPincode()

+ "\n";

}

public static void main(String[] args) {

HashMap<Integer, Client> data = new HashMap<Integer, Client>();

int ch = 0;

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

while (true) {

System.out.println("Enter number which operation you want");

System.out.println("1. Add Product");

System.out.println("2. Update Producr");

System.out.println("3. Delete Product");

System.out.println("4. Get Product ");

System.out.println("5. Get All Products");

System.out.println("6. Exit");

ch = sc.nextInt();

if (ch == 6) {

break;

}

switch (ch) {

case 1: {

Client c = new Client();

c.addProduct();

data.put(c.getProductid(), c);

System.out.println("Product added Successfully");

break;

}

case 2: {

System.out.println("Enter Product id");

int n = sc.nextInt();

data.get(n).addProduct();

System.out.println("Product Updated Successfully \n");

break;

}

case 3: {

System.out.println("Enter a Product id");

int n = sc.nextInt();

data.remove(n);

System.out.println("Product Deleted \n");

break;

}

case 4: {

System.out.println("Enter a Product id");

int n = sc.nextInt();

System.out.println(data.get(n));

break;

}

case 5: {

Set<Integer> s = data.keySet();

for (Object c : s) {

System.out.println(data.get(c));

}

break;

}

}

}

}

}