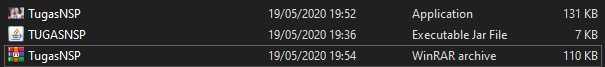
**Calvin Lazuardi - 2201814600**



**import** java.util.Scanner;

**public** **class** TUGASNSP {

**public** **static** **class** RandomInt {

**static** String getNumberAlphaStr(**int** n) {

String NumberAlphaStr = "0123456789";

StringBuilder builder = **new** StringBuilder(n);

**for** (**int** i = 0; i < n; i++)

{

**int** index = (**int**)(NumberAlphaStr.length() \* Math.*random*());

builder.append(NumberAlphaStr.charAt(index));

}

**return** builder.toString();

}

**public** **static** **class** RandomStr {

**static** String getNumberAlphaStr(**int** n)

{

String NumberAlphaStr = "ABCDEFGHIJKLMNOPQRSTUVWXYZ" + "abcdefghijklmnopqrstuvwxyz";

StringBuilder builder = **new** StringBuilder(n);

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

**int** index = (**int**)(NumberAlphaStr.length() \* Math.*random*());

builder.append(NumberAlphaStr.charAt(index));

}

**return** builder.toString();

}

**public** **static** **void** main(String[] args) {

**int** menu = 0;

**int** menu1 = 0;

**int** codeHp = 6;

**int** hpCount = 3;

Scanner scanStr = **new** Scanner(System.***in***);

Scanner scanInt = **new** Scanner(System.***in***);

String[] hpName = **new** String[5];

hpName[0] = "Blackberry Gemini 9800";

hpName[1] = "Samsung SIII";

hpName[2] = "Nokia Lumia";

**int**[] hpPrice = **new** **int**[5];

hpPrice[0] = 2000000;

hpPrice[1] = 5200000;

hpPrice[2] = 4800000;

**int**[] hpStock = **new** **int**[5];

hpStock[0] = 20;

hpStock[1] = 15;

hpStock[2] = 10;

String[] getCodeHp = **new** String[5];

System.***out***.println("Red Hot Chilli Paper Celulars");

System.***out***.println("----------------------------");

System.***out***.println("1. Local Product ?");

System.***out***.println("2. Import Product ?");

**while**(menu == 0)

{

System.***out***.println("Choose : ");

menu = scanInt.nextInt();

**if** (menu == 1)

{

**int** i;

getCodeHp[0] = RandomStr.*getNumberAlphaStr*(codeHp);

getCodeHp[1] = RandomStr.*getNumberAlphaStr*(codeHp);

getCodeHp[2] = RandomStr.*getNumberAlphaStr*(codeHp);

**while** (menu1 == 0)

{

System.***out***.println("\n");

System.***out***.println("Handphone Count: " + hpCount);

System.***out***.println("-----------------------------------");

System.***out***.println(" Main Menu ");

System.***out***.println("-----------------------------------");

System.***out***.println("1. Insert new Phone");

System.***out***.println("2. Sell Phone");

System.***out***.println("3. View Phone List");

System.***out***.println("4. Exit");

System.***out***.println("Choose : ");

menu1 = scanInt.nextInt();

**if** (menu1 == 1)

{

**if** (hpCount == 5)

{

System.***out***.println("Phone Has Been Reached. . .");

}

**else** **if** (hpCount < 5)

{

System.***out***.println("Input Phone Name [10...30]: ");

String insertPhoneName;

insertPhoneName = scanStr.nextLine();

**int** insertPhoneNameLength = insertPhoneName.length();

**if** (insertPhoneNameLength > 30)

{

System.***out***.println("Input Length Must Be Between 10 and 30!");

System.***out***.println("Exitting...");

**break**;

}

**else** **if** (insertPhoneNameLength < 10)

{

System.***out***.println("Input Length Must Be Between 10 and 30!");

System.***out***.println("Exitting...");

**break**;

}

hpName[hpCount] = insertPhoneName;

System.***out***.println("Input Phone Price (Rp 1.000.000..Rp 6.000.000): ");

**int** insertPhonePrice;

insertPhonePrice = scanInt.nextInt();

**if** (insertPhonePrice < 1000000)

{

System.***out***.println("Price Input Must Be Between Rp 1.000.000 and Rp 6.000.000!");

System.***out***.println("Exitting...");

**break**;

}

hpPrice[hpCount] = insertPhonePrice;

System.***out***.println("Input Phone Stock (5..100): ");

**int** insertPhoneStock;

insertPhoneStock = scanInt.nextInt();

**if** (insertPhoneStock < 5)

{

System.***out***.println("Stock Input Must Be Between 5 and 100!");

System.***out***.println("Exitting...");

**break**;

}

**else** **if** (insertPhoneStock > 100)

{

System.***out***.println("Stock Input Must Be Between 5 and 100!");

System.***out***.println("Exitting...");

**break**;

}

hpName[hpCount] = insertPhoneName;

hpStock[hpCount] = insertPhoneStock;

getCodeHp[hpCount] = RandomStr.*getNumberAlphaStr*(codeHp);

hpCount = hpCount + 1;

menu1 = 0;

}

}

**else** **if** (menu1 == 2)

{

**if** (hpCount == 0)

{

System.***out***.println("No Mobile Phone Product...");

}

**else** **if** (hpCount > 0)

{

**for** (i = 0; i < hpCount; i++)

{

**int** j = i+1;

System.***out***.println(j + ". " + getCodeHp[i] + " - "

+ hpName[i]);

}

System.***out***.println("Input Number of Phone: ");

**int** insertHpCount;

insertHpCount = scanInt.nextInt();

insertHpCount = insertHpCount - 1;

System.***out***.println(getCodeHp[insertHpCount] + " -> " + hpName[insertHpCount] + " -> "

+ hpPrice[insertHpCount]);

System.***out***.println("Input Quantity To Sell [1 - " + hpStock[insertHpCount] + "]: ");

**int** jumlah;

jumlah = scanInt.nextInt();

**if** (jumlah > hpStock[insertHpCount])

{

System.***out***.println("Stock is not Available!");

}

**else**

{

**int** total;

total = jumlah \* hpPrice[insertHpCount];

System.***out***.println("Total Purchase: Rp. " + total);

String pay = "Belom Lunas";

**while** (pay == "Belom Lunas")

{

System.***out***.println("Total Payment [Min: " + total + "]: ");

**int** bayar;

bayar = scanInt.nextInt();

**if** (bayar < total)

{

pay = "Belom Lunas";

}

**else** **if** (bayar == total)

{

pay = "Lunas";

hpStock[insertHpCount] = hpStock[insertHpCount] - jumlah;

menu1 = 0;

}

**else** **if** (bayar > total)

{

**int** moneyback;

moneyback = bayar - total;

System.***out***.println("Your Change: " + moneyback);

System.***out***.println("Success Sell the Phone...");

pay = "Lunas";

hpStock[insertHpCount] = hpStock[insertHpCount] - jumlah;

menu1 = 0;

}

}

**if** (hpStock[insertHpCount] == 0)

{

hpStock[insertHpCount] = hpStock[hpCount - 1];

hpName[insertHpCount] = hpName[hpCount - 1];

hpPrice[insertHpCount] = hpPrice[hpCount - 1];

hpPrice[hpCount] = 0;

hpName[hpCount] = "-";

hpStock[hpCount] = 0;

getCodeHp[hpCount] = "-";

hpCount = hpCount - 1;

}

}

}

}

**else** **if** (menu1 == 3)

{

i = hpCount;

**if** (i > 0)

{

**for** (i = 0; i < hpCount; i++)

{

**int** j = i + 1;

System.***out***.println(j + "> ");

System.***out***.println("Code : " + getCodeHp[i]);

System.***out***.println("Name : " + hpName[i]);

System.***out***.println("Price : " + hpPrice[i]);

System.***out***.println("Stock : " + hpStock[i]);

menu1 = 0;

}

}

**else**

{

System.***out***.println("Data Tidak ADA!");

}

}

**else** **if** (menu1 == 4)

{

**break**;

}

**else**

{

System.***out***.println("The Input Must Be Between 1 to 4!");

menu1 = 0;

}

}

}

**else** **if** (menu == 2)

{

**int** i;

getCodeHp[0] = RandomInt.*getNumberAlphaStr*(codeHp);

getCodeHp[1] = RandomInt.*getNumberAlphaStr*(codeHp);

getCodeHp[2] = RandomInt.*getNumberAlphaStr*(codeHp);

**while** (menu1 == 0)

{

System.***out***.println("\n");

System.***out***.println("Handphone Count: " + hpCount);

System.***out***.println("-----------------------------------");

System.***out***.println(" Main Menu ");

System.***out***.println("-----------------------------------");

System.***out***.println("1. Insert new Phone");

System.***out***.println("2. Sell Phone");

System.***out***.println("3. View Phone List");

System.***out***.println("4. Exit");

System.***out***.println("Choose : ");

menu1 = scanInt.nextInt();

**if** (menu1 == 1)

{

**if** (hpCount == 5)

{

System.***out***.println("Phone Has Been Reached. . .");

menu1 = 0;

}

**else** **if** (hpCount < 5)

{

**if** (menu1 == 1)

{

**if** (hpCount == 5)

{

System.***out***.println("Phone Has Been Reached. . .");

menu1 = 0;

}

**else** **if** (hpCount < 5)

{

System.***out***.println("Input Phone Name (10...30): ");

String insertPhoneName;

insertPhoneName = scanStr.nextLine();

**int** insertPhoneNameLength = insertPhoneName.length();

**if** (insertPhoneNameLength > 30)

{

System.***out***.println("Input Length Must Be Between 10 and 30!");

System.***out***.println("Exitting...");

**break**;

}

**else** **if** (insertPhoneNameLength < 10)

{

System.***out***.println("Input Length Must Be Between 10 and 30!");

System.***out***.println("Exitting...");

**break**;

}

hpName[hpCount] = insertPhoneName;

System.***out***.println("Input Phone Price [Rp 1.000.000..Rp 6.000.000]: ");

**int** insertPhonePrice;

insertPhonePrice = scanInt.nextInt();

**if** (insertPhonePrice < 1000000)

{

System.***out***.println("Price Input Must Be Between Rp 1.000.000 and Rp 6.000.000!");

System.***out***.println("Exitting...");

**break**;

}

hpPrice[hpCount] = insertPhonePrice;

System.***out***.println("Input Phone Stock [5..100]: ");

**int** insertPhoneStock;

insertPhoneStock = scanInt.nextInt();

**if** (insertPhoneStock < 5)

{

System.***out***.println("Stock Input Must Be Between 5 and 100!");

System.***out***.println("Exitting...");

**break**;

}

**else** **if** (insertPhoneStock > 100)

{

System.***out***.println("Stock Input Must Be Between 5 and 100!");

System.***out***.println("Exitting...");

**break**;

}

hpName[hpCount] = insertPhoneName;

hpStock[hpCount] = insertPhoneStock;

getCodeHp[hpCount] = RandomInt.*getNumberAlphaStr*(codeHp);

hpCount = hpCount + 1;

menu1 = 0;

}

}

}

}

// Phone Sell

**else** **if** (menu1 == 2)

{

**if** (hpCount == 0)

{

System.***out***.println("No Mobile Phone Product...");

}

**else** **if** (hpCount > 0)

{

**for** (i = 0; i < hpCount; i++)

{

**int** j = i+1;

System.***out***.println(j + " > " + getCodeHp[i] + " - "

+ hpName[i]);

}

System.***out***.println("Input Number of Phone: ");

**int** insertHpCount;

insertHpCount = scanInt.nextInt();

insertHpCount = insertHpCount - 1;

System.***out***.println(getCodeHp[insertHpCount] + " -> " + hpName[insertHpCount] + " -> "

+ hpPrice[insertHpCount]);

System.***out***.println("Input Quantity To Sell [1 - " + hpStock[insertHpCount] + "]: ");

**int** jumlah;

jumlah = scanInt.nextInt();

**if** (jumlah > hpStock[insertHpCount])

{

System.***out***.println("Stock is not Available!");

}

**else**

{

**int** total;

total = jumlah \* hpPrice[insertHpCount];

System.***out***.println("Total Purchase: Rp. " + total);

String pay = "Belom Lunas";

**while** (pay == "Belom Lunas")

{

System.***out***.println("Total Payment [Min: " + total + "]: ");

**int** bayar;

bayar = scanInt.nextInt();

**if** (bayar < total)

{

pay = "Belom Lunas";

}

**else** **if** (bayar == total)

{

pay = "Lunas";

hpStock[insertHpCount] = hpStock[insertHpCount] - jumlah;

menu1 = 0;

}

**else** **if** (bayar > total)

{

**int** moneyback;

moneyback = bayar - total;

System.***out***.println("Your Change: " + moneyback);

System.***out***.println("Success Sell the Phone...");

pay = "Lunas";

hpStock[insertHpCount] = hpStock[insertHpCount] - jumlah;

menu1 = 0;

}

}

**if** (hpStock[insertHpCount] == 0)

{

hpStock[insertHpCount] = hpStock[hpCount - 1];

hpName[insertHpCount] = hpName[hpCount - 1];

hpPrice[insertHpCount] = hpPrice[hpCount - 1];

hpPrice[hpCount] = 0;

hpName[hpCount] = "-";

hpStock[hpCount] = 0;

getCodeHp[hpCount] = "-";

hpCount = hpCount - 1;

}

}

}

}

**else** **if** (menu1 == 3)

{

i = hpCount;

**if** (i > 0)

{

**for** (i = 0; i < hpCount; i++)

{

**int** j = i + 1;

System.***out***.println(j + ". ");

System.***out***.println("Code : " + getCodeHp[i]);

System.***out***.println("Name : " + hpName[i]);

System.***out***.println("Price : " + hpPrice[i]);

System.***out***.println("Stock : " + hpStock[i]);

menu1 = 0;

}

}

**else**

{

System.***out***.println("Data Tidak ADA!");

}

}

**else** **if** (menu1 == 4)

{

**break**;

}

**else**

{

System.***out***.println("The Input Must Be Between 1 to 4!");

menu1 = 0;

}

}

}

}

}

}

}

}