import java.util.Scanner;

public class finising\_ProjectExperiment {

public static int N;

String[] namaBarang = new String[100];

int[] kodeBarang = new int[100];

String[] distributor = new String[100];

byte[] jumlahBarang = new byte[100];

int[] harga = new int[100];

// public static int N = 6;

// private int[] kodeBarang = {12345, 12346, 12347, 12348, 12349, 12310};

// private String[] namaBarang = {"sogood","susu","modem","buku","jam","pulpen"};

// private String[] distributor = {"PT.Japfa","PT.Indomilk","PT.Nusantara","PT.Yudistira","PT.Clock","PT.Pulpen"};

// private int[] harga = {200000,300000,400000,500000,600000,700000};

public static void main(String[] args) {

finising\_ProjectExperiment objek = new finising\_ProjectExperiment();

objek.test();

}

public void test() {

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

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

System.out.println(" [ WELLCOME IN APLICATION ]");

System.out.println(" [ PROJECT DATA BARANG KELONTONG ]");

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

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

System.out.println("");

menuUtama();

}

public void exit() {

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

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

System.out.println(" [ EXIT APLICATION ]");

System.out.println(" [ PROJECT DATA BARANG KELONTONG ]");

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

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

System.out.println("");

System.exit(0);

}

// Kawasan Menu - Menu Program

public void menuUtama() {

Scanner memilihMenu = new Scanner(System.in);

int membukaMenu;

do {

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

System.out.println(" | [ Menu Utama Program ] |");

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

System.out.println(" | [ 1.] Memasukan Data Kelontong |");

System.out.println(" | [ 2.] Menampilkan Data Kelontong |");

System.out.println(" | [ 3.] Menambah Data Kelontong |");

System.out.println(" | [ 4.] Mencari Data Kelontong |");

System.out.println(" | [ 5.] Mengedit Data Kelontong |");

System.out.println(" | [ 6.] Menghapus Data Kelontong |");

System.out.println(" | [ 7.] Mengurutkan Data Kelontong |");

System.out.println(" | [ 8.] Keluar Program |");

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

System.out.println("");

System.out.print(" Pilihan Menu [ 1 - 8 ] = open menu ");

membukaMenu = memilihMenu.nextInt();

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

System.out.println(" Menu Nomor [ " +membukaMenu + " ] Diproses . . . . ");

System.out.println("");

if (membukaMenu == 1) { // memilih menu 1 memasukan data

// System.out.println(" Masih Proses");

getMemasukanData();

} else if (membukaMenu == 2) { // memilih menu 2 menampilkan data

// System.out.println(" Masih Proses");

subMenuMenampilkan();

} else if (membukaMenu == 3) { // memilih menu 3 menambahkan data

// System.out.println(" Masih Proses");

subMenuMenambahkan();

} else if (membukaMenu == 4) { // memilih menu 4 mencari data

// System.out.println(" Masih Proses");

subMenuMencari();

} else if (membukaMenu == 5) {

// System.out.println(" Masih Proses");

getEditDt();

} else if (membukaMenu == 6) {

// System.out.println(" Masih Proses");

getHapusDt();

} else if (membukaMenu == 7) {

// System.out.println(" Masih Proses");

getMenurutkanDt();

} else {

// System.out.println(" Masih Proses");

System.out.println(" Menu : "+membukaMenu+" tidak ada dalam pilihan");

System.out.println(" ");

}

} while (membukaMenu != 8);

exit();

} // akhir dari method menuUtama

public void subMenuMenampilkan() {

Scanner memilihSubmenu = new Scanner(System.in);

int membukaSubmenuMenampilkan;

do {

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

System.out.println(" | [ Menu Menampilkan data ] |");

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

System.out.println(" | [ 1.] Berdasarkan Keseluruhan |");

System.out.println(" | [ 2.] Berdasarkan Nama Barang dan Kode Barang |");

System.out.println(" | [ 3.] Berdasarkan Nama Barang dan Distributor |");

System.out.println(" | [ 4.] Berdasarkan Nama Barang dan Harga |");

System.out.println(" | [ 5.] kembali menu utama |");

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

System.out.println("");

System.out.print(" pilih [1 - 5] : open Submenu ");

membukaSubmenuMenampilkan = memilihSubmenu.nextInt();

System.out.println(" ");

if (membukaSubmenuMenampilkan == 1) { // memilih Submenu 1 berdasarkan keseluruhan

// System.out.println(" Masih Proses");

getMenampilkanData();

} else if (membukaSubmenuMenampilkan == 2) { // memilih Submenu 2 berdasarkan Nama Barang dan Kode Barang

// System.out.println(" Masih Proses");

getMenampilkanNmBrng\_KdBrng();

} else if (membukaSubmenuMenampilkan == 3) { // memilih Submenu 3 berdasarkan Nama Barang dan Distributor

// System.out.println(" Masih Proses");

getMenampilkanNmBrng\_Ditrbutor();

} else if (membukaSubmenuMenampilkan == 4) { // memilih Submenu 4 berdasarkan Nama Barang dan Harga

// System.out.println(" Masih Proses");

getMenampilkanNmBrng\_Hrga();

} else {

// System.out.println(" Masih Proses");

System.out.println(" Submenu : "+membukaSubmenuMenampilkan+" tidak ada dalam pilihan");

System.out.println(" Jika memilih Sub Menu 5 Maka Keluar Form Menampilkan");

System.out.println(" ");

}

} while (membukaSubmenuMenampilkan != 5);

menuUtama();

} // akhir dari method subMenuMenampilkan

public void subMenuMenambahkan() {

Scanner memilihSubmenu = new Scanner(System.in);

int membukaSubmenuMenambahkan;

do {

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

System.out.println(" | [ Menu Menambahkan data ] |");

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

System.out.println(" | [ 1.] Menambah data dari depan |");

System.out.println(" | [ 2.] Menambah data dari tengah |");

System.out.println(" | [ 3.] Menambah data dari belakang |");

System.out.println(" | [ 4.] Kembali kemenu utama |");

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

System.out.print(" pilih [ 1 - 4 ] : open Submenu ");

membukaSubmenuMenambahkan = memilihSubmenu.nextInt();

System.out.println(" ");

if (membukaSubmenuMenambahkan == 1) { // memilih Submenu 1 memambahkan data dari depan

// System.out.println(" Masih Proses");

getMenambahkanDt\_Depan();

} else if (membukaSubmenuMenambahkan == 2) { // memilih Submenu 2 menambah data dari tengah

// System.out.println(" Masih Proses");

getMenambahkanDt\_Tengah();

} else if (membukaSubmenuMenambahkan == 3) { // memilih Submenu 3 menambah data dari balakang

// System.out.println(" Masih Proses");

getMenambahkanDt\_Belakang();

} else {

// System.out.println(" Masih Proses");

System.out.println(" Submenu : "+membukaSubmenuMenambahkan+" tidak ada dalam pilihan");

System.out.println(" ");

}

} while(membukaSubmenuMenambahkan != 4);

menuUtama();

} // akhir dari method suMenambahkan

public void subMenuMencari() {

Scanner memilihSubmenu = new Scanner(System.in);

int membukaSubmenuMencari;

do {

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

System.out.println(" | [ Mencari data sesuai ] |");

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

System.out.println(" | [ 1.] Mencari data dengan Sekuensial |");

System.out.println(" | [ 2.] Kembali kemenu utama |");

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

System.out.print(" pilih [1 - 2] : open Submenu ");

membukaSubmenuMencari = memilihSubmenu.nextInt();

System.out.println(" ");

if (membukaSubmenuMencari == 1) { // memilih Submenu 1 Mencari data dengan Sekuensial

// System.out.println(" Masih Proses");

getMencariDt\_Sekuensial();

} else

// System.out.println(" Masih Proses");

System.out.println(" Submenu : "+membukaSubmenuMencari+" tidak ada dalam pilihan");

System.out.println(" ");

} while(membukaSubmenuMencari != 2);

menuUtama();

}

// Kawasan pemanggilan Mesin Program

public void getMemasukanData() {

inputdataKelontong(namaBarang, kodeBarang, distributor, harga);

}

public void getMenampilkanData() {

menampilkandataKelontong(namaBarang, kodeBarang, distributor, harga);

}

public void getMenampilkanNmBrng\_KdBrng() {

menampilkanBerdasarkanNamadanKode(namaBarang, kodeBarang, distributor, harga);

}

public void getMenampilkanNmBrng\_Ditrbutor() {

menampilkanBerdasarkanNamadanDistributor(namaBarang, kodeBarang, distributor, harga);

}

public void getMenampilkanNmBrng\_Hrga() {

menampilkanBerdasarkanNamadanHarga(namaBarang, kodeBarang, distributor, harga);

}

public void getMenambahkanDt\_Depan() {

menambahkandataKelontongDariDepan(namaBarang, kodeBarang, distributor, harga);

}

public void getMenambahkanDt\_Tengah() {

menambahkandataKelontongDariTengah(namaBarang, kodeBarang, distributor, harga);

}

public void getMenambahkanDt\_Belakang() {

menambahdatakelontongDariBelakang(namaBarang, kodeBarang, distributor, harga);

}

public void getMencariDt\_Sekuensial() {

mencariSekuensialdataKelontong(namaBarang, kodeBarang, distributor, harga);

}

public void getEditDt() {

mengeditDatakelontong(namaBarang, kodeBarang, distributor, harga);

}

public void getHapusDt() {

menghapusDatakelontong(namaBarang, kodeBarang, distributor, harga);

}

public void getMenurutkanDt() {

mengurutkanDataSecaraBubbleSort(namaBarang, kodeBarang, distributor, harga);

}

// Kawasan Algoritma Program

public static void inputdataKelontong(String[] namaBarang,int[] kodeBarang, String[] distributor, int[] harga) {

Scanner masukanNama = new Scanner(System.in);

Scanner masukanNomor = new Scanner(System.in);

Scanner masukanKonfirmasi = new Scanner(System.in);

// deklarasi variabel

String inputLagi;

String simpan;

int i = -1;

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

System.out.println(" | [ Menu Input Data Kelontong ] |");

do {

i++;

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

System.out.print(" | Input Nama Barang : ");

namaBarang[i] = masukanNama.next();

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

System.out.print(" | Input Kode Barang : ");

kodeBarang[i] = masukanNomor.nextInt();

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

System.out.print(" | Input Distributor : ");

distributor[i] = masukanNama.next();

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

System.out.print(" | Input Harga : ");

harga[i] = masukanNomor.nextInt();

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

System.out.println(" ");

System.out.println(" Pesan Konfirmasi input data");

System.out.print(" Masukan Lagi [ iya/tidak ] : "); // konfirmasi mengulang

inputLagi = masukanKonfirmasi.next();

System.out.println(" ");

} while (inputLagi.equals("iya"));

N = i + 1;

System.out.print(" Simpan Data Kelontong [ iya/tidak ] : "); // konfirmasi menyimpan

simpan = masukanNama.next();

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

if (simpan.equalsIgnoreCase("iya")) {

System.out.println(" ");

System.out.println(" Proses input data kelontong berhasil disimpan");

System.out.println(" Dengan jumlah : "+N+" data kelontong");

System.out.println("");

} else {

System.out.println(" ");

System.out.println(" Data tidak disimpan");

System.out.println("");

N = i - 1;

}

} // akhir dari method input data

/\*----------------------------------------------------------------------------------------------------------------\*/

public static void menampilkandataKelontong(String[] namaBarang,int[] kodeBarang, String[] distributor, int[] harga) {

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

System.out.println(" | [ Tabel Semua Data Barang Kelontong ] |");

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

System.out.println(" | No | \tNama Barang\tKode Barang\tDistributor\tHarga |");

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

for (int i = 0 ; i <= N - 1; i++) {

System.out.println(" | "+i+ " |\t" + namaBarang[i] + "\t\t" + kodeBarang[i] + "\t\t" + distributor[i] + "\tRp." + harga[i] );

}

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

System.out.println(" | Daftar Keseluruhan Data Kelontong = "+ N + " Data Tersimpan \t\t |");

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

System.out.println("");

} // akhir dari method menampilkan data

/\*----------------------------------------------------------------------------------------------------------------\*/

public static void menampilkanBerdasarkanNamadanKode(String[] namaBarang,int[] kodeBarang, String[] distributor, int[] harga) {

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

System.out.println(" | Tabel Menampilkan |");

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

System.out.println(" | Berdasarkan Nama Barang dan Kode Barang |");

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

System.out.println(" | No | Nama Barang | Kode Barang\t |");

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

for (int i = 0 ; i <= N - 1; i++)

{

System.out.println(" | "+i+ " | " + namaBarang[i] +"\t | " + kodeBarang[i] +"\t |");

}

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

System.out.println(" ");

} // akhir method menampilkanBerdasarkanNamadanKode

/\*----------------------------------------------------------------------------------------------------------------\*/

public static void menampilkanBerdasarkanNamadanDistributor(String[] namaBarang,int[] kodeBarang, String[] distributor, int[] harga) {

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

System.out.println(" | Tabel Menampilkan |");

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

System.out.println(" | Berdasarkan Nama Barang dan Distributor |");

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

System.out.println(" | No | Nama Barang | Distributor\t |");

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

for (int i = 0 ; i <= N - 1; i++) {

System.out.println(" | "+i+ " | " + namaBarang[i] +"\t | " + distributor[i]);

}

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

System.out.println(" ");

} // akhir method menampilkanBerdasarkanNamadanDistributor

/\*----------------------------------------------------------------------------------------------------------------\*/

public static void menampilkanBerdasarkanNamadanHarga(String[] namaBarang,int[] kodeBarang, String[] distributor, int[] harga) {

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

System.out.println(" | Tabel Menampilkan |");

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

System.out.println(" | Berdasarkan Nama Barang dan Harga |");

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

System.out.println(" | No | Nama Barang | Harga\t |");

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

for (int i = 0 ; i <= N - 1; i++) {

System.out.println(" | "+i+ " | " + namaBarang[i] +"\t | " + harga[i] +"\t |");

}

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

System.out.println(" ");

} // akhir method menampilkanBerdasarkanNamadanDistributor

/\*----------------------------------------------------------------------------------------------------------------\*/

public static void menambahkandataKelontongDariDepan(String[] namaBarang,int[] kodeBarang, String[] distributor, int[] harga) {

Scanner masukanNama = new Scanner(System.in);

Scanner masukanNomor = new Scanner(System.in);

String lihatDataBaru;

// deklarasi variabel

int i;

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

System.out.println(" | [ Menu Menambahkan Dari Depan ] |");

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

// untuk menggeser data

for (i = N ; i >= 1 ; i-- ) {

kodeBarang[i] = kodeBarang[i - 1];

namaBarang[i] = namaBarang[i - 1];

distributor[i] = distributor[i - 1];

harga[i] = harga[i - 1];

}

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

System.out.print(" | Input Nama Barang : ");

namaBarang[0] = masukanNama.next();

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

System.out.print(" | Input Kode Barang : ");

kodeBarang[0] = masukanNomor.nextInt();

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

System.out.print(" | Input Distributor : ");

distributor[0] = masukanNama.next();

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

System.out.print(" | Input Harga : ");

harga[0] = masukanNomor.nextInt();

System.out.println(" +---------------------------------------------|");

N++;

System.out.println(" Proses penambahan data berhasil. . . ");

System.out.println(" ");

System.out.print(" Lihat Data ( Iya / Tidak ) : ");

lihatDataBaru = masukanNama.next();

if (lihatDataBaru.equalsIgnoreCase("iya")) {

menampilkandataKelontong(namaBarang, kodeBarang, distributor, harga);

} else {

System.out.println(" ");

}

} // akhir method menambahkandataKelontongDariDepan

/\*----------------------------------------------------------------------------------------------------------------\*/

public static void menambahkandataKelontongDariTengah(String[] namaBarang,int[] kodeBarang, String[] distributor, int[] harga) {

Scanner masukanNama = new Scanner(System.in);

Scanner masukanNomor = new Scanner(System.in);

String lihatDataBaru;

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

System.out.println(" | [ Menu Menambahkan Dari Tengah ] |");

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

System.out.print(" | Diposisi mana data akan disimpan : ");

int pilihSimpan = masukanNomor.nextInt();

System.out.println(" +---------------------------------------------|");

System.out.println(" ");

// bagian menggeser data

for (int i = N ; i > pilihSimpan ; i-- ) {

kodeBarang[i] = kodeBarang[i - 1];

namaBarang[i] = namaBarang[i - 1];

distributor[i] = distributor[i - 1];

harga[i] = harga[i - 1];

}

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

System.out.print(" | Input Nama Barang : ");

namaBarang[pilihSimpan] = masukanNama.next();

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

System.out.print(" | Input Kode Barang : ");

kodeBarang[pilihSimpan] = masukanNomor.nextInt();

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

System.out.print(" | Input Distributor : ");

distributor[pilihSimpan] = masukanNama.next();

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

System.out.print(" | Input Harga : ");

harga[pilihSimpan] = masukanNomor.nextInt();

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

N++;

System.out.println(" Proses penambahan data berhasil. . . ");

System.out.println(" ");

System.out.print(" Lihat Data ( Iya / Tidak ) : ");

lihatDataBaru = masukanNama.next();

if (lihatDataBaru.equalsIgnoreCase("iya")) {

menampilkandataKelontong(namaBarang, kodeBarang, distributor, harga);

} else {

System.out.println(" ");

}

} // akhir method menambahkandataKelontongDariDepan

/\*----------------------------------------------------------------------------------------------------------------\*/

public static void menambahdatakelontongDariBelakang(String[] namaBarang,int[] kodeBarang, String[] distributor, int[] harga) {

Scanner masukanNama = new Scanner(System.in);

Scanner masukanNomor = new Scanner(System.in);

String lihatDataBaru;

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

System.out.println(" | [ Menu Menambahkan Dari Belakang ] |");

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

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

System.out.print(" | Input Nama Barang : ");

namaBarang[N] = masukanNama.next();

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

System.out.print(" | Input Kode Barang : ");

kodeBarang[N] = masukanNomor.nextInt();

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

System.out.print(" | Input Distributor : ");

distributor[N] = masukanNama.next();

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

System.out.print(" | Input Harga : ");

harga[N] = masukanNomor.nextInt();

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

N++;

System.out.println(" Proses penambahan data berhasil. . . ");

System.out.println(" ");

System.out.print(" Lihat Data ( Iya / Tidak ) : ");

lihatDataBaru = masukanNama.next();

if (lihatDataBaru.equalsIgnoreCase("iya")) {

menampilkandataKelontong(namaBarang, kodeBarang, distributor, harga);

} else {

System.out.println(" ");

}

} // akhir method menambahdatakelontongDariBelakang

/\*----------------------------------------------------------------------------------------------------------------\*/

public static void mencariSekuensialdataKelontong(String[] namaBarang,int[] kodeBarang, String[] distributor, int[] harga) {

Scanner masukanNama = new Scanner(System.in);

boolean bilaKetemu = false;

String lihatData;

int i = 0;

int lokasi = 0;

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

System.out.println(" | [ Menu Mencari Data Dengan Sekuensial ] |");

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

System.out.print(" | Nama data yang akan di cari : ");

String cari = masukanNama.next();

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

while ((bilaKetemu == false) && (i < N)) {

if (namaBarang[i].equals(cari)) {

bilaKetemu = true;

lokasi = i;

}

i++;

}

if (bilaKetemu == true)

{

System.out.println(" ");

System.out.println(" Pencarian data Berhasil ....");

System.out.println(" Nama Barang : [ "+ cari + " ] ditemukan di lokasi = "+ lokasi);

System.out.println("");

System.out.print(" Lihat daftar yang tersimpan (iya / tidak) : ");

lihatData = masukanNama.next();

if (lihatData.equals("iya")) {

System.out.println(" ");

menampilkandatadiPencarian(namaBarang, kodeBarang, distributor, harga);

System.out.println(" Nama Barang : [ "+ cari + " ] terlihat ditemukan di lokasi = "+ lokasi);

System.out.println(" ");

} else {

System.out.println(" ");

System.out.println(" Menu pencarian data Ditutup");

System.out.println(" ");

}

} else {

System.out.println(" ");

System.out.println(" Pencarian data Gagal !!!!");

System.out.println(" maaf, Nama Barang [ " +cari+ " ] tidak ada dalam daftar ");

System.out.println( " ");

System.out.print(" Lihat daftar yang tersimpan (iya / tidak) : ");

lihatData = masukanNama.next();

if (lihatData.equals("iya"))

{

System.out.println(" ");

menampilkandatadiPencarian(namaBarang, kodeBarang, distributor, harga);

System.out.println(" Nama Barang : [ "+ cari + " ] tidak ditemukan di lokasi ");

System.out.println(" ");

} else {

System.out.println(" ");

System.out.println(" Menu pencarian data Ditutup");

System.out.println(" ");

}

}

} // akhir method mencariSekuensialdataKelontong

/\*----------------------------------------------------------------------------------------------------------------\*/

public static void mengeditDatakelontong(String[] namaBarang,int[] kodeBarang, String[] distributor, int[] harga) {

Scanner masukanNama = new Scanner(System.in);

Scanner masukanNomor = new Scanner(System.in);

boolean bilaKetemu = false;

int i = 0;

int lokasi = 0;

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

System.out.println(" | [ Menu Mengedit Data Kelontong ] |");

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

System.out.print(" | Pilih Nama data yang akan di edit : ");

String cari = masukanNama.next();

System.out.println(" +---------------------------------------------|");

while ((bilaKetemu == false) && (i < N)) {

if (namaBarang[i].equals(cari)) {

bilaKetemu = true;

lokasi = i;

}

i++;

}

if (bilaKetemu == true) {

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

System.out.print(" | Input Baru Nama Barang : ");

namaBarang[lokasi] = masukanNama.next();

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

System.out.print(" | Input Baru Kode Barang : ");

kodeBarang[lokasi] = masukanNomor.nextInt();

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

System.out.print(" | Input Baru Distributor : ");

distributor[lokasi] = masukanNama.next();

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

System.out.print(" | Input Baru Harga : ");

harga[lokasi] = masukanNomor.nextInt();

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

System.out.println(" ");

System.out.println(" Data Berhasil diubah .....");

System.out.println(" ");

} else

System.out.println(" maaf, Nama Barang : [ " +cari+ " ] tidak ada dalam daftar ");

System.out.println(" ");

} // akhir method mengeditDatakelontong

/\*----------------------------------------------------------------------------------------------------------------\*/

public static void menghapusDatakelontong(String[] namaBarang,int[] kodeBarang, String[] distributor, int[] harga) {

Scanner masukanNama = new Scanner(System.in);

boolean bilaKetemu = false;

int i = 0;

int lokasi = 0;

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

System.out.println(" | [ Menu Menghapus Data Kelontong ] |");

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

System.out.print(" | Nama data yang akan di hapus : ");

String cari = masukanNama.next();

System.out.println(" +---------------------------------------------|");

while ((bilaKetemu == false) && (i < N))

{

if (namaBarang[i].equals(cari))

{

bilaKetemu = true;

lokasi = i;

}

i++;

}

if (bilaKetemu == true)

{

// bagian menggeser data

for (i = lokasi; i <= N-2; i++)

{

kodeBarang[i] = kodeBarang[i + 1];

namaBarang[i] = namaBarang[i + 1];

distributor[i] = distributor[i + 1];

harga[i] = harga[i + 1];

}

N--;

System.out.println(" Data Berhasil Dihapus . . . .");

System.out.println(" ");

} else

System.out.println(" maaf, Nama Barang : [ " +cari+ " ] tidak ada dalam daftar ");

System.out.println(" ");

} // akhir method menghapusDatakelontong

/\*----------------------------------------------------------------------------------------------------------------\*/

public static void menampilkandatadiPencarian(String[] namaBarang,int[] kodeBarang, String[] distributor, int[] harga) {

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

System.out.println(" | [ Tabel Semua Data Barang Kelontong ] |");

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

System.out.println(" | No | \tNama Barang\tKode Barang\tDistributor\tHarga |");

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

for (int i = 0 ; i <= N - 1; i++)

{

System.out.println(" | "+i+ " |\t" + namaBarang[i] + "\t\t" + kodeBarang[i] + "\t\t" + distributor[i] + "\tRp." + harga[i] );

}

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

System.out.println(" Daftar Keseluruhan Data Kelontong = "+ N + " Data Tersimpan");

System.out.println("");

} // akhir dari method menampilkan data

/\*----------------------------------------------------------------------------------------------------------------\*/

public static void mengurutkanDataSecaraBubbleSort(String[] namaBarang,int[] kodeBarang, String[] distributor, int[] harga) {

Scanner masukanNama = new Scanner(System.in);

String NmBrg , lihatData;

int KdBrg;

String DISTRIBUTOR;

int Hrga;

for (int j = 0; j <= N - 2; j++) {

for(int i = 0; i <= (N-2)-j; i++) {

if (namaBarang[i].compareTo(namaBarang[i + 1]) > 0)

{

NmBrg = namaBarang[i];

namaBarang[i] = namaBarang[i + 1];

namaBarang[i + 1] = NmBrg;

KdBrg = kodeBarang[i];

kodeBarang[i] = kodeBarang[i + 1];

kodeBarang[i + 1] = KdBrg;

DISTRIBUTOR = distributor[i];

distributor[i] = distributor[i + 1];

distributor[i + 1] = DISTRIBUTOR;

Hrga = harga[i];

harga[i] = harga[i + 1];

harga[i + 1] = Hrga;

}

}

}

System.out.println(" Pengurutan Selesai ........");

System.out.print(" Lihat Hasil (iya / tidak) : ");

lihatData = masukanNama.next();

if (lihatData.equals("iya"))

{

System.out.println(" ");

menampilkandatadiPencarian(namaBarang, kodeBarang, distributor, harga);

System.out.println(" Hasil data sudah terurut ");

System.out.println(" ");

} else {

System.out.println(" ");

System.out.println(" Menu pencarian data Ditutup");

System.out.println(" ");

}

} // akhir method mengurutkanDataSecaraBubbleSort

/\*----------------------------------------------------------------------------------------------------------------\*/

public static void pencarianBinary(String[] namaBarang,int[] kodeBarang, String[] distributor, int[] harga) {

Scanner masukanNomor = new Scanner(System.in);

Scanner masukanNama = new Scanner(System.in);

String lihatData;

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

System.out.println(" | Menu Mencari data Binary |");

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

System.out.println(" ");

System.out.print(" Masukan Kode Barang Yang ini dicari : ");

int kunci = masukanNomor.nextInt();

int indeksElement = cariKunci(kunci, kodeBarang);

if (indeksElement != -1)

{

System.out.println(" ");

System.out.println(" Pencarian data berhasil ....");

System.out.println(" ");

System.out.println(" Kode Barang dengan = "+ kunci +" Ditemukan di : "+indeksElement);

for (int i = 0 ; i <= N - 1; i++)

{

if ((kunci == kodeBarang[i])) {

System.out.println(" | "+i+ " |\t" + namaBarang[i] + "\t\t" + kodeBarang[i] + "\t\t" + distributor[i] + "\tRp." + harga[i] );

}

}

System.out.println(" ");

System.out.print(" Lihat daftar yang tersimpan (iya / tidak) : ");

lihatData = masukanNama.next();

if (lihatData.equals("iya"))

{

System.out.println(" ");

menampilkandatadiPencarian(namaBarang, kodeBarang, distributor, harga);

System.out.println(" Kode Barang : [ "+ kunci + " ] terlihat ditemukan di lokasi = "+ indeksElement);

System.out.println(" ");

} else {

System.out.println(" ");

System.out.println(" Menu pencarian data Ditutup");

System.out.println(" ");

}

} else {

System.out.println(" ");

System.out.println(" Pencarian data Gagal !!!!");

System.out.println(" maaf, Kode Barang [ " +kunci+ " ] tidak ada dalam daftar ");

System.out.println( " ");

System.out.print(" Lihat daftar yang tersimpan (iya / tidak) : ");

lihatData = masukanNama.next();

if (lihatData.equals("iya"))

{

System.out.println(" ");

menampilkandatadiPencarian(namaBarang, kodeBarang, distributor, harga);

System.out.println(" Nama Barang : [ "+ kunci + " ] tidak ditemukan di lokasi ");

System.out.println(" ");

} else {

System.out.println(" ");

System.out.println(" Menu pencarian data Ditutup");

System.out.println(" ");

}

}

}

public static int cariKunci(int kunci , int[] kodeBarang) {

int indeksTerkecil = 0;

int indeksTerbesar = kodeBarang.length - 1;

return cariKunci(kunci, kodeBarang, indeksTerkecil, indeksTerbesar);

}

public static int cariKunci(int kunci, int[] kodeBarang, int indeksTerkecil, int indeksTerbesar) {

if (indeksTerkecil > indeksTerbesar)

return -1;

int indeksTengah = (indeksTerkecil + indeksTerbesar) / 2;

if (kunci < kodeBarang[indeksTengah])

return cariKunci(kunci, kodeBarang, indeksTerkecil, indeksTengah - 1);

else if (kunci == kodeBarang[indeksTengah])

return indeksTengah;

else

return cariKunci(kunci, kodeBarang, indeksTengah + 1, indeksTerbesar);

}

} // akhir dari class program

/\*----------------------------------------------------------------------------------------------------------------\*/