package tugasakhir;

import java.io.\*;

import java.util.\*;

public class lessingMotorBai {

static ArrayList<Integer> nomorPembeli = new ArrayList<>();

static ArrayList<String> namaPembeli = new ArrayList<>();

static ArrayList<String> nikPembeli = new ArrayList<>();

static ArrayList<String> umurPembeli = new ArrayList<>();

static ArrayList<String> alamatPembeli = new ArrayList<>();

static ArrayList<Double> noHpPembeli = new ArrayList<>();

static ArrayList<String> namaMotor = new ArrayList<>();

static ArrayList<Double> hargaMotor = new ArrayList<>();

static ArrayList<Double> uangMuka = new ArrayList<>();

static ArrayList<Integer> tenor = new ArrayList<>();

static ArrayList<Double> angsuran = new ArrayList<>();

static ArrayList<Double> bunga = new ArrayList<>();

static boolean isRunning = true;

static BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

public static void main(String[] args) throws IOException {

while (isRunning) {

showMenu();

}

}

static void showMenu() throws IOException {

String iMenu = "";

do {

System.out.println("========== MENU ==========");

System.out.println("[1] Lihat Data");

System.out.println("[2] Tambah Data");

System.out.println("[3] Edit Data");

System.out.println("[4] Hapus Data");

System.out.println("[5] Exit");

System.out.print("PILIH MENU > ");

iMenu = (br.readLine());

}while(!iMenu.matches("[12345]"));

int selectedMenu = Integer.parseInt(iMenu);

switch (selectedMenu) {

case 1:

showAllData();

break;

case 2:

tambahData();

break;

case 3:

editData();

break;

case 4:

hapusData();

break;

case 5:

System.exit(0);

break;

default:

System.out.println("Error!");

}

}

static void showAllData() throws IOException {

Scanner scanner = new Scanner(System.in);

int halaman = 1;

int dataHalaman = 3;

int totalHalaman = (int) Math.ceil((double) nomorPembeli.size() / dataHalaman);

double grandTotalHarga = 0;

double grandTotalUangMuka = 0;

double grandTotalAngsuran = 0;

double grandTotalBunga = 0;

while (true) {

System.out.println("\nData Pemilik Kredit Motor");

System.out.println("Hal " + halaman + "\n");

if (nomorPembeli.isEmpty()) {

System.out.println("Data Tidak Tersedia.");

return;

} else {

double subtotalHarga = 0, subtotalUangMuka = 0, subtotalAngsuran = 0, subtotalBunga = 0;

System.out.printf("---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------\n");

System.out.printf("| No | Nama Pembeli | NIK | Umur | Alamat | Nomor Hp. | Nama Motor | Harga | Uang Muka | Tenor | Angsuran/Bulan | Bunga/Bln |\n");

System.out.printf("|----+--------------------+--------------------+------+------------------------------------------------------------+-------------------------+------------------------+--------------------+-----------------------+-----------+--------------------|---------------|\n");

int start = (halaman - 1) \* dataHalaman;

int end = Math.min(start + dataHalaman, nomorPembeli.size());

for (int i = start; i < end; i++) {

subtotalHarga += hargaMotor.get(i);

subtotalUangMuka += uangMuka.get(i);

subtotalAngsuran += angsuran.get(i);

subtotalBunga += bunga.get(i);

System.out.printf("| %-2d | %-18s | %-18s | %-4s | %-58s | %-23.0f | %-22s | %-18.2f | %-21.2f | %-9d | %-18.2f | %-13.2f |\n",

i + 1,

namaPembeli.get(i),

nikPembeli.get(i),

umurPembeli.get(i),

alamatPembeli.get(i),

noHpPembeli.get(i),

namaMotor.get(i),

hargaMotor.get(i),

uangMuka.get(i),

tenor.get(i),

angsuran.get(i),

bunga.get(i)

);

}

System.out.printf("|----+--------------------+--------------------+------+------------------------------------------------------------+-------------------------+------------------------+--------------------+-----------------------+-----------+--------------------|---------------|\n");

System.out.printf("| | %-18s | %-18s | | %-58s | | %-22s | %-18.2f | %-21.2f | | %-18.2f | %-13.2f |\n",

"Subtotal",

"",

"",

"",

subtotalHarga,

subtotalUangMuka,

subtotalAngsuran,

subtotalBunga);

System.out.printf("---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------\n");

grandTotalHarga += subtotalHarga;

grandTotalUangMuka += subtotalUangMuka;

grandTotalAngsuran += subtotalAngsuran;

grandTotalBunga += subtotalBunga;

if (halaman == totalHalaman) {

System.out.printf("|----+--------------------+--------------------+------+------------------------------------------------------------+-------------------------+------------------------+--------------------+-----------------------+-----------+--------------------|---------------|\n");

System.out.printf("| | %-18s | %-18s | | %-58s | | %-22s | %-18.2f | %-21.2f | | %-18.2f | %-13.2f |\n",

"Grand Total",

"",

"",

"",

grandTotalHarga,

grandTotalUangMuka,

grandTotalAngsuran,

grandTotalBunga);

System.out.printf("---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------\n");

System.out.println("Sudah Mencapai Data Akhir.");

}

System.out.println("\n[n] Halaman Berikutnya | [p] Halaman Sebelumnya | [e] Keluar");

System.out.print("Pilihan: ");

String pilihan = scanner.nextLine().toUpperCase();

if (pilihan.equalsIgnoreCase("n") && halaman < totalHalaman) {

halaman++;

} else if (pilihan.equalsIgnoreCase("p") && halaman > 1) {

halaman--;

} else if (pilihan.equalsIgnoreCase("e")) {

break;

} else {

System.out.println("Pilihan tidak valid.");

}

}

}

}

static void tambahData() throws IOException {

System.out.print("Nomor Pembeli : ");

int nomor = Integer.parseInt(br.readLine());

System.out.print("Nama Pembeli : ");

String nama = br.readLine();

System.out.print("NIK : ");

String nik = br.readLine();

System.out.print("Umur : ");

String umur = br.readLine();

System.out.print("Alamat : ");

String alamat = br.readLine();

System.out.print("Nomor Hp. : ");

double nomorHp = Double.parseDouble(br.readLine());

System.out.println("Pilih Jenis Motor:");

System.out.println("1. Aerox (Rp 23.000.000)");

System.out.println("2. PCX (Rp 33.000.000)");

System.out.println("3. R25 (Rp 59.000.000)");

System.out.print("Pilih Motor [1-3]: ");

int pilihanMotor = Integer.parseInt(br.readLine());

String jenisMotor = "";

double hargaMotorValue = 0;

switch (pilihanMotor) {

case 1:

jenisMotor = "Aerox";

hargaMotorValue = 23000000;

break;

case 2:

jenisMotor = "PCX";

hargaMotorValue = 33000000;

break;

case 3:

jenisMotor = "R25";

hargaMotorValue = 59000000;

break;

default:

System.out.println("Pilihan tidak valid!");

return;

}

double uangMukaValue = 0;

do{

System.out.print("Uang Muka (Minimal Rp 3.000.000): ");

uangMukaValue = Double.parseDouble(br.readLine());

}while(uangMukaValue < 3000000);

System.out.println("Pilih Lama Cicilan:");

System.out.println("1. 6 bulan"); // Bunga 5%

System.out.println("2. 12 bulan"); // Bunga 7%

System.out.println("3. 24 bulan"); // Bunga 9%

System.out.println("4. 36 bulan"); // Bunga 11%

System.out.print("Pilih Cicilan [1-4]: ");

int pilihanCicilan = Integer.parseInt(br.readLine());

int lamaCicilan = 0;

switch (pilihanCicilan) {

case 1:

lamaCicilan = 6;

break;

case 2:

lamaCicilan = 12;

break;

case 3:

lamaCicilan = 24;

break;

case 4:

lamaCicilan = 36;

break;

default:

System.out.println("Pilihan tidak valid!");

return;

}

double cicilanBulanan = (hargaMotorValue - uangMukaValue) / lamaCicilan;

double cicilanBulananBulat = (int) (Math.round(cicilanBulanan / 3000) \* 3000);

double bungaBln = 0;

switch(pilihanCicilan){

case 1 :

bungaBln = cicilanBulanan \* 5 / 100;

break;

case 2 :

bungaBln = cicilanBulanan \* 7 / 100;

break;

case 3 :

bungaBln = cicilanBulanan \* 9 / 100;

break;

case 4 :

bungaBln = cicilanBulanan \* 11 / 100;

break;

}

double bungaBulat = (int) (Math.round(bungaBln / 3000) \* 3000);

nomorPembeli.add(nomor);

namaPembeli.add(nama);

nikPembeli.add(nik);

umurPembeli.add(umur);

alamatPembeli.add(alamat);

noHpPembeli.add(nomorHp);

namaMotor.add(jenisMotor);

hargaMotor.add(hargaMotorValue);

uangMuka.add(uangMukaValue);

tenor.add(lamaCicilan);

angsuran.add(cicilanBulananBulat);

bunga.add(bungaBulat);

System.out.println("Data berhasil ditambahkan!");

}

static void editData() throws IOException {

showAllData();

System.out.print("Pilih nomor pembeli yang ingin diubah: ");

int index = Integer.parseInt(br.readLine()) - 1;

if (index >= 0 && index < nomorPembeli.size()) {

System.out.print("Nama Pembeli baru: ");

namaPembeli.set(index, br.readLine());

System.out.print("NIK baru: ");

nikPembeli.set(index, br.readLine());

System.out.print("Umur baru: ");

umurPembeli.set(index, br.readLine());

System.out.print("Alamat baru: ");

alamatPembeli.set(index, br.readLine());

System.out.print("Nomor Hp. baru: ");

noHpPembeli.set(index, Double.parseDouble(br.readLine()));

System.out.println("Pilih Jenis Motor:");

System.out.println("1. Aerox (Rp 23.000.000)");

System.out.println("2. PCX (Rp 33.000.000)");

System.out.println("3. R25 (Rp 59.000.000)");

System.out.print("Pilih Motor [1-3]: ");

int pilihanMotor = Integer.parseInt(br.readLine());

String jenisMotor = "";

double hargaMotorValue = 0;

switch (pilihanMotor) {

case 1:

jenisMotor = "Aerox";

hargaMotorValue = 23000000;

break;

case 2:

jenisMotor = "PCX";

hargaMotorValue = 33000000;

break;

case 3:

jenisMotor = "R25";

hargaMotorValue = 59000000;

break;

default:

System.out.println("Pilihan tidak valid!");

return;

}

System.out.print("Uang Muka baru: ");

double uangMukaValue = Double.parseDouble(br.readLine());

System.out.println("Pilih Lama Cicilan baru:");

System.out.println("1. 6 bulan");

System.out.println("2. 12 bulan");

System.out.println("3. 24 bulan");

System.out.println("4. 36 bulan");

System.out.print("Pilih Cicilan baru [1-4]: ");

int pilihanCicilan = Integer.parseInt(br.readLine());

int lamaCicilan = 0;

switch (pilihanCicilan) {

case 1:

lamaCicilan = 6;

break;

case 2:

lamaCicilan = 12;

break;

case 3:

lamaCicilan = 24;

break;

case 4:

lamaCicilan = 36;

break;

default:

System.out.println("Pilihan tidak valid!");

return;

}

double cicilanBulanan = (hargaMotorValue - uangMukaValue) / lamaCicilan;

namaMotor.set(index, jenisMotor);

hargaMotor.set(index, hargaMotorValue);

uangMuka.set(index, uangMukaValue);

tenor.set(index, lamaCicilan);

angsuran.set(index, cicilanBulanan);

System.out.println("Data berhasil diubah!");

} else {

System.out.println("Nomor data tidak valid!");

}

}

static void hapusData() throws IOException {

showAllData();

System.out.print("Pilih nomor pembeli yang ingin dihapus: ");

int index = Integer.parseInt(br.readLine()) - 1;

if (index >= 0 && index < nomorPembeli.size()) {

nomorPembeli.remove(index);

namaPembeli.remove(index);

nikPembeli.remove(index);

umurPembeli.remove(index);

alamatPembeli.remove(index);

noHpPembeli.remove(index);

namaMotor.remove(index);

hargaMotor.remove(index);

uangMuka.remove(index);

tenor.remove(index);

angsuran.remove(index);

bunga.remove(index);

System.out.println("Data berhasil dihapus!");

} else {

System.out.println("Nomor data tidak valid!");

}

}

}