

NAMA : FAHRI ZANUAR PRADIAN

NIM : 2341720104

NO ABSEN : 10 KELAS : TI-1C MATERI : UTS

## LAPORAN PRAKTIKUM ALGORITMA DAN STRUKTUR DATA

#### Class Bank10

```
package UTS_10_1C_FahriZanuarP;

public class Bank10 {
    String noRekening, nama,namaIbu, noHp, email;

public Bank10(String noRekening, String nama, String namaIbu, String noHp, String email) {
    this.noRekening = noRekening;
    this.nama = nama;
    this.namaIbu = namaIbu;
    this.noHp = noHp;
    this.email = email;
}

public void tampilDataNorek10 (){
    System.out.printf("%-16s %-10s %-15s %-20s %-5s\n", noRekening, nama, namaIbu, noHp,email);
}

}

18
```

### Class Transaksi10

```
public class Transaksi10 {

String kodeTransaksi, tanggalTransaksi, type;

double saldo, inOutSaldo, finalsaldo;

Bank10 bankAcc;

public Transaksi10(String kodeTransaksi, String tanggalTransaksi, String type, double saldo, double inOutSaldo, double finalsaldo, Bank10 bankAcc) {

this.kodeTransaksi = kodeTransaksi;

this.tope = type;

this.tanggalTransaksi = tanggalTransaksi;

this.tope = type;

this.saldo = saldo;

this.inOutSaldo = inOutSaldo;

this.finalsaldo = finalsaldo;

this.bankAcc = bankAcc;

}

public void tampilDataTransaksi10({

System.out.printf(format:"%-15s %-15s %-15s %-15s %13s %12s \n", kodeTransaksi, bankAcc.noRekening, saldo, inOutSaldo, finalsaldo, tanggalTransaksi, type );

}

public void tampilDataTransaksi10({

System.out.printf(format:"%-15s %-15s %-15s %-15s %13s %12s \n", kodeTransaksi, bankAcc.noRekening, saldo, inOutSaldo, finalsaldo, tanggalTransaksi, type );

}
```

Class MainBank10



NAMA : FAHRI ZANUAR PRADIAN

NIM : 2341720104

NO ABSEN : 10 KELAS : TI-1C MATERI : UTS

```
package UTS_10_1C_FahriZanuarP;
       public class MainBank10 {
                    Bank10 acc = new Bank10("16030927 3084", "Wallace", "Mei Mei", "082-458-264-3263", "wallace@gmail.com");
Bank10 acc1 = new Bank10("16100617 0573", "Darius", "Susanti", "081-357-843-0547", "dairius@opt.org");
Bank10 acc2 = new Bank10("16240401 2243", "Fuller", "Rosalia ", "085-556-712-7062", "fuller@gmail.com");
Bank10 acc3 = new Bank10("16270525 0112", "Maria", "Krabelia ", "082-267-223-0234", "maria@gmail.com");
Bank10 acc4 = new Bank10("16101617 2416", "Gery", "Fatimah ", "083-683-416-8323", "gery@gery.com");
                    Transaksi10 tr = new Transaksi10("Tr001", "23-04-2024", "Debit", 500000, 100000,400000, acc);
Transaksi10 tr1 = new Transaksi10("Tr002", "23-04-2024", "Kredit", 500000, 100000, 600000, acc1);
Transaksi10 tr2 = new Transaksi10("Tr004", "23-04-2024", "Debit", 500000, 300000, 200000, acc2);
Transaksi10 tr3 = new Transaksi10("Tr002", "23-04-2024", "Kredit", 500000, 150000, 650000, acc3);
Transaksi10 tr4 = new Transaksi10("Tr002", "23-04-2024", "Kredit", 500000, 200000, 700000, acc4);
                     stack.push10(tr);
                      stack.push10(tr4);
                             System.out.println("=========POLINEMA BANK=======");
                             System.out.println("BANK MENU: ");
                             System.out.println("1. Data Norek");
                             System.out.println("2. Data Transaksi (dalam stack)");
                             System.out.println("3. Search Data (No rek)");
                             System.out.println("5. Sort Data Dengan (Selection Sort)");
                             System.out.println("6. Exit");
                             int pilihan = inputint.nextInt();
                             switch (pilihan) {
                                             System.out.print("Input No Rekening Pengguna: ");
                                            String norek = inputStr.nextLine();
                                            System.out.println("Menampilkan Saldo Tertinggi");
                                             stack.maxSaldo();
```



NAMA : FAHRI ZANUAR PRADIAN

NIM : 2341720104

NO ABSEN : 10 KELAS : TI-1C MATERI : UTS

```
. .
                  package UTS_10_1C_FahriZanuarP;
                 public class StackTrannsaksi10 {
   Transaksi10 trs[];
   int size, top,jumlahAkun«-1;
   Bank10 acc[];
                              public void akunBank10 (int kapasitas){
   acc = new Bank10[kapasitas];
                              public void tambahAkunBank10(Bank10 akun){
   jumlahAkun++;
   acc[jumlahAkun]=akun;
                             public void StackTrannsaksiBankiB(int kapasitas){
    trs = new Transaksi10[kapasitas];
    size = kapasitas;
    top=-1;
                              public boolean cekPenuh10(){
    return top == size-1;
                              public void push10(Transaksi10 data){
   if (cekPenuh10()) {
      System.out.println("Stack Penuh");
   }else{
                            public Transaksi10 pop10(){
    if (cokkOsong10()) {
        System.out.println("Stack Kosong");
        return null;
    }else(
        Transaksi10 data=trs[top];
        top--;
        return data;
}
                             public void displayData10(int pilihan)(
   if (pilihan=1) (
        System.out.println("No Rekening Nama Nama Ibu NoHp
        for (int i = 0; i < jumlahAkun; i++) {
        acc[i].tampilDataNorek10();
    }
}</pre>
                                             | else if (pilihan==2) {
    System.out.println("Kode transaksi No Rekening Saldo Debit/Kredit Final Saldo Tanggal Transaksi Type");
    for (int i = top; i >= 0; i--) {
        trs[i].tampilOataTransaksi10();
    }
                            public Transaksi10 Searching8inaryNorek10 (String cari, int left, int right){
  int mid;
  if (right>=left) {
    mid=(left+right)/2;
    if (cari.comparefolgnoreCase(trs[mid].bankAcc.noRekening)==0) {
        return trs[mid];
    } else if (acc[mid].noRekening.comparefolgnoreCase(cari)<0) {
        return Searching8inaryNorek10(cari, left, mid-1);
    } else {
        return Searching8inaryNorek10(cari, mid+1, right);
    }
}</pre>
                                           }

}

System.out.println("Kode Transaksi : "+ trs[posisi].kodeTransaksi);

System.out.println("No rekening : "+ trs[posisi].bankAcc.noRekening);

System.out.println("Nama : "+trs[posisi].bankAcc.nama);

System.out.println("Saldo : "+trs[posisi].saldo);

System.out.println("Saldo : "+trs[posisi].slado);

System.out.println("Saldo Akhir : "+trs[posisi].finalsaldo);

System.out.println("Tanggal Transaksi: "+trs[posisi].tanggalTransaksi);

System.out.println("Type : "+trs[posisi].type);
                              }
public void tampilSearchingi@ (String cari){
    Transaksil@ hasil = Searchingi@naryNorekl@(cari, 0, jumlahAkun);
    if (hasil!=null) {
        System.out.println("Kode Transaksi : "+ hasil.kodeTransaksi);
        System.out.println("No rekening : "+ hasil.bankAcc.noRekening);
        System.out.println("Nama : "+ hasil.bankAcc.nama);
        System.out.println("Saldo : "+ hasil.saldo);
        System.out.println("Todoit*Tkreddi : "+ hasil.inOutSaldo);
        System.out.println("Tanggal Transaksi: "+ hasil.tinggalTransaksi);
        System.out.println("Tanggal Transaksi: "+ hasil.tanggalTransaksi);
        System.out.println("Type : "+ hasil.type);
        letse(
                                                            System.out.println("TRansaksi tidak ditemukan");
```



**NAMA** : FAHRI ZANUAR PRADIAN

**NIM** : 2341720104

**NO ABSEN** : 10 **KELAS** : TI-1C **MATERI** : UTS

## 1. Display data norek

POLINEMA BANK BANK MENU: 1. Data Norek Data Transaksi (dalam stack)
 Search Data (No rek)
 Display Min/Max Data (Max Saldo) Sort Data Dengan (Selection Sort) 6. Exit No Rekening 16030927 3084 16100617 0573 082-458-264-3263 081-357-843-0547 Wallace Mei Mei wallace@gmail.com dairius@opt.org fuller@gmail.com maria@gmail.com Darius Susanti 085-556-712-7062 16240401 2243 Rosalia 16270525 0112 082-267-223-0234

### 2. Display data transaksi

==POLINEMA BANK= BANK MENU: 1. Data Norek 1. Data Norek
2. Data Transaksi (dalam stack)
3. Search Data (No rek)
4. Display Min/Max Data (Max Saldo)
5. Sort Data Dengan (Selection Sort)
6. Exit Z Kode transaksi No Rekening Tr002 16101617 2416 Tr002 16270525 0112 Tr004 16240401 2243 Saldo 500000.0 500000.0 500000.0 Tanggal Transaksi 23-04-2024 Debit/Kredit Type Kredit 200000.0 150000.0 300000.0 700000.0 650000.0 200000.0 23-04-2024 23-04-2024 Kredit Debit 16100617 0573 16030927 3084 =====POLINEMA BANK Tr002 Tr001 500000.0 500000.0 100000.0 100000.0 600000.0 400000.0 23-04-2024 23-04-2024 Kredit Debit

#### Search Data Transaksi

## ======POLINEMA BANK======== BANK MENU: 1. Data Norek 2. Data Transaksi (dalam stack) 3. Search Data (No rek) 4. Display Min/Max Data (Max Saldo) 5. Sort Data Dengan (Selection Sort) 6. Exit Input No Rekening Pengguna: 1610617 2416

TRansaksi tidak ditemukan

# 4. Display Min/max

=======POLINEMA BANK========== BANK MENU: 1. Data Norek 2. Data Transaksi (dalam stack) 3. Search Data (No rek) 4. Display Min/Max Data (Max Saldo) 5. Sort Data Dengan (Selection Sort) 6. Exit 4 Menampilkan Saldo Tertinggi Kode Transaksi : Tr002 No rekening: 16270525 0112 Nama : Maria Saldo : 500000.0 Debit/kredit : 150000.0 Saldo Akhir : 650000.0 Tanggal Transaksi: 23-04-2024 Type : Kredit

### 5. Sort data