Laporan Ujian Tengah Semester Praktikum ASD

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Kelas : 1 E

JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGRI MALANG

2023/2024

Berikut merupakan class Rekening22

```java
public class Rekening22 {
    String noRekening, nama, namaibu, Phone, Email;

    Rekening22(String a, String b, String c, String d, String e){
        this.noRekening = a;
        this.nama       = b;
        this.namaibu    = c;
        this.Phone      = d;
        this.Email      = e;
    }


    void tampilkanData() {
        System.out.printf("%-15s%-20s%-20s%-15s%-25s%n", noRekening, nama, namaibu, Phone, Email);
    }


}
```

Berikut merupakan class Transaksi22

```java
public class Transaksi22 {

    double saldo, saldoAwal, saldoAkhir;
    String tanggalTransaksi, type, noRekening;

    Transaksi22(Rekening22 rekening, double a, double b, double c, String d, String e ){
        this.saldo           = a;
        this.saldoAwal       = b;
        this.saldoAkhir      = c;
        this.tanggalTransaksi = d;
        this.type            = e;
        this.noRekening = rekening.noRekening;
    }

    void tampilkanDataSaldo() {
        System.out.printf("%-20s%-15s%-20s%-20s%-15s%-25s%n",noRekening, saldo, saldoAwal, saldoAkhir, tanggalTransaksi, type);
    }


}
```

Berikut merupakan class Service22

```java
public class Service22 {
    Rekening22 list [] = new Rekening22[19];
    Transaksi22 list2 [] = new Transaksi22[19];
    int idx1, idx2;
    void tambah1 (Rekening22 M){
        if (idx1<list.length){
            list[idx1] = M;
            idx1++;
        } else {
            System.out.println("Data sudah penuh!!");
        }
    }
    void tambah2 (Transaksi22 T){
        if (idx2<list2.length){
            list2[idx2] = T;
            idx2++;
        } else {
            System.out.println("Data sudah penuh!!");
        }
    }

    void tampil(){
        System.out.printf("%-15s%-20s%-20s%-15s%-25s%n", "No Rekening", "Nama", "Nama Ibu", "Phone", "Email");
        for(Rekening22 M : list){
            M.tampilkanData();
        }
    }

    void tampil2(){
        System.out.printf("%-20s%-15s%-20s%-20s%-15s%-25s%n", "No Rekening","saldo", "saldoAwal", "saldoAkhir", "tanggalTransaksi", "type");
        for(Transaksi22 T : list2){
            T.tampilkanDataSaldo();
        }
    }

    void tampilkanSaldoDiatas500000() {
        System.out.println("Daftar No Rekening dengan Saldo di atas 500000:");
        System.out.println("----------------------------------------------------------------------------");
        for (Transaksi22 T : list2) {
            if (T.saldoAkhir > 500000) {
                System.out.printf("%-15s%-15.2f%n", T.noRekening, T.saldoAkhir);
            }
        }
    }

    void sortingName() {
        for (int i = 0; i < idx1 - 1; i++) {
            for (int j = 0; j < idx1 -i -1; j++) {
                if (list[j].nama.compareToIgnoreCase(list[j + 1].nama) > 0   ) {
                    Rekening22 temp = list[j];
                    list[j] = list[j + 1];
                    list[j + 1] = temp;
                }
            }
        }
    }
}
```

Berikut merupakan class MainTransaksi22

```java
import java.util.Scanner;
public class MainTransaksi22 {
    public static void main(String[] args) {
        Scanner sc22 = new Scanner(System.in);
        Service22 list = new Service22();
        Rekening22 r1 = new Rekening22("16030927 3084","Wallace","Chase Castro","1-458-264-3263","ligula.Nullam@tacitisociosqu.edu");
        Rekening22 r2 = new Rekening22("16100617 0573","Darius","Julian Daniel","1-357-843-0547","nec@lectusjusto.org");
        Rekening22 r3 = new Rekening22("16240401 2243","Fuller","Finn Dunlap","571-7062","convallis@Vestibulumanteipsum.org");
        Rekening22 r4 = new Rekening22("16270525 0112","Malcolm","Keane Floyd","623-0234","porttitor.tellus.non@Curabitur.ca");
        Rekening22 r5 = new Rekening22("16971204 2416","Geoffrey","Stephen Pratt","1-683-416-8323","ut.pellentesque@luctusutpellentesque.com");
        Rekening22 r6 = new Rekening22("16100727 8862","Rudyard","Charles Morales","650-5379","Proin.eget@velitegestaslacinia.ca");
        Rekening22 r7 = new Rekening22("16460329 4259","Troy","Damon Guerra","897-7608","pede.Suspendisse.dui@a.ca");
        Rekening22 r8 = new Rekening22("16320421 3437","Alec","Cooper Lee","792-4447","non@mus.com");
        Rekening22 r9 = new Rekening22("16180729 7229","Walter","Seth Drake","863-8209","Pellentesque.ut.ipsum@neque.ca");
        Rekening22 r10 = new Rekening22("16950313 6823","Simon","Burton Gates","592-6919","tellus.justo.sit@commodoauctor.net");
        Rekening22 r11 = new Rekening22("16850708 3528","Kamal","Odysseus Salas","1-115-339-7678","dictum@nec.edu");
        Rekening22 r12 = new Rekening22("16080205 9329","Xenos","Colin Curry","1-891-703-2664","vel@ullamcorpermagna.co.uk");
        Rekening22 r13 = new Rekening22("16080628 2695","Merritt","Clarke Roman","1-978-632-5110","Aliquam.gravida@vestibulumMauris.net");
        Rekening22 r14 = new Rekening22("16130909 2979","Ryder","Joel Cunningham","817-1766","interdum.Curabitur.dictum@rutrumurna.edu");
        Rekening22 r15 = new Rekening22("16890212 8688","Preston","Brock Schroeder","1-675-400-4501","et.ultrices@a.co.uk");
        Rekening22 r16 = new Rekening22("16141008 9963","Alec","Baker Barton","527-9085","ut@aultriciesadipiscing.ca");
        Rekening22 r17 = new Rekening22("16511222 7763","Price","Ashton Burke","1-564-419-4285","Proin.velit@Duisac.net");
        Rekening22 r18 = new Rekening22("16720623 0943","Devin","Slade Flores","977-6690","ac@nibhAliquamornare.com");
        Rekening22 r19 = new Rekening22("16771126 7372","Ignatius","Lionel Kane","353-5137","cubilia.Curae.Phasellus@Duis.com");

        list.tambah1(r1);
        list.tambah1(r2);
        list.tambah1(r3);
        list.tambah1(r4);
        list.tambah1(r5);
        list.tambah1(r6);
        list.tambah1(r7);
        list.tambah1(r8);
        list.tambah1(r9);
        list.tambah1(r10);
        list.tambah1(r11);
        list.tambah1(r12);
        list.tambah1(r13);
        list.tambah1(r14);
        list.tambah1(r15);
        list.tambah1(r16);
        list.tambah1(r17);
        list.tambah1(r18);
        list.tambah1(r19);

        Service22 list2 = new Service22();
        Transaksi22 s1 = new Transaksi22( r1,898214.0,494048.0,3587.0,"2021-03-09 07:54:42","");
        Transaksi22 s2 = new Transaksi22( r2, 205420.0,200162.0,775880.0,"2021-06-25 10:23:00","");
        Transaksi22 s3 = new Transaksi22( r3, 838632.0,350929.0,328316.0,"2021-09-18 23:00:04","");
        Transaksi22 s4 = new Transaksi22(r4,230659.0,204434.0,690503.0,"2022-02-02 19:10:34","");
        Transaksi22 s5 = new Transaksi22(r5,770592.0,334245.0,444267.0,"2020-08-11 13:36:56","");
        Transaksi22 s6 = new Transaksi22(r6,685302.0,451002.0,376442.0,"2020-05-23 07:34:53","");
        Transaksi22 s7 = new Transaksi22(r7,816129.0,851403.0,597842.0,"2021-07-18 19:41:20","");
        Transaksi22 s8 = new Transaksi22(r8,989609.0,333823.0,802752.0,"2022-02-01 01:13:11","");
        Transaksi22 s9 = new Transaksi22(r9,297103.0,396116.0,779589.0,"2021-07-03 01:09:49","");
        Transaksi22 s10 = new Transaksi22(r10,66190.0,259150.0,619774.0,"2021-09-09 03:57:30","");
        Transaksi22 s11 = new Transaksi22(r11,234301.0,278309.0,547922.0,"2021-08-24 13:18:39","");
        Transaksi22 s12 = new Transaksi22(r12,243306.0,869468.0,50283.0,"2021-03-12 03:40:16","");
        Transaksi22 s13 = new Transaksi22(r13,371045.0,991242.0,602034.0,"2021-08-06 11:48:59","");
        Transaksi22 s14 = new Transaksi22(r14,395170.0,97058.0,472273.0,"2021-05-02 10:53:31","");
        Transaksi22 s15 = new Transaksi22(r15,862731.0,561908.0,109431.0,"2021-07-31 08:11:00","");
        Transaksi22 s16 = new Transaksi22(r16,556798.0,31387.0,725426.0,"2021-03-27 06:18:20","");
        Transaksi22 s17 = new Transaksi22(r17,873982.0,896213.0,846142.0,"2021-07-18 04:06:30","");
        Transaksi22 s18 = new Transaksi22(r18,774247.0,739406.0,775848.0,"2020-10-24 01:39:00","");
        Transaksi22 s19 = new Transaksi22(r19,66987.0,823014.0,868772.0,"2020-12-21 05:57:59","");
        list2.tambah2(s1);
        list2.tambah2(s2);
        list2.tambah2(s3);
        list2.tambah2(s4);
        list2.tambah2(s5);
        list2.tambah2(s6);
        list2.tambah2(s7);
        list2.tambah2(s8);
        list2.tambah2(s9);
        list2.tambah2(s10);
        list2.tambah2(s11);
        list2.tambah2(s12);
        list2.tambah2(s13);
        list2.tambah2(s14);
        list2.tambah2(s15);
        list2.tambah2(s16);
        list2.tambah2(s17);
        list2.tambah2(s18);
        list2.tambah2(s19);

        int pilih;
        System.out.println("===================================");
        System.out.println("                UTS                ");
        System.out.println("===================================");
        System.out.println("1. Tampil Data rekening        ");
        System.out.println("2. Tampil Data transaksi       ");
        System.out.println("3. Mencari saldo > 500000      ");
        System.out.println("4. Sorting by name             ");
        System.out.println("5. Keluar                      ");
        System.out.print("Pilih (1-5) : ");
        pilih = sc22.nextInt();
        switch(pilih){
            case 1 :
            list.tampil();
            break;
            case 2 :
            list2.tampil2();
            break;
            case 3 :
            list2.tampilkanSaldoDiatas500000();
            break;
            case 4 :
            list.sortingName();
            list.tampil();
            break;
            case 5 :
            System.out.println("Terimakasih telah menggunakan bank naufal!!");
            System.exit(0);
            default :
            System.out.println("Pilihan tidak valid!!");
            System.exit(0);
        }
    }
}
```

Berikut merupakan hasil run dari kode diatas

```
PS E:\kuliah\SEM2\ASD\22_Naufal_UTS> & 'C:\Program Files\Java\jdk1.8.0_202\bin\java.exe' '-cp' 'C:\Users\Noe\AppDa
dhat.java\jdt_ws\22_Naufal_UTS_fc3ece35\bin' 'MainTransaksi22'
================================
                UTS
================================
1. Tampil Data rekening
2. Tampil Data transaksi
3. Mencari saldo > 500000
4. Sorting by name
5. Keluar
Pilih (1-5) : 1
No Rekening    Nama          Nama Ibu          Phone          Email
16030927 3084  Wallace       Chase Castro      1-458-264-3263 ligula.Nullam@tacitisociosqu.edu
16100617 0573  Darius        Julian Daniel     1-357-843-0547 nec@lectusjusto.org
16240401 2243  Fuller        Finn Dunlap       571-7062       convallis@Vestibulumanteipsum.org
16270525 0112  Malcolm       Keane Floyd       623-0234       porttitor.tellus.non@Curabitur.ca
16971204 2416  Geoffrey      Stephen Pratt     1-683-416-8323 ut.pellentesque@luctusutpellentesque.com
16100727 8862  Rudyard       Charles Morales   650-5379       Proin.eget@velitegestaslacinia.ca
16460329 4259  Troy          Damon Guerra      897-7608       pede.Suspendisse.dui@a.ca
16320421 3437  Alec          Cooper Lee        792-4447       non@mus.com
16180729 7229  Walter        Seth Drake        863-8209       Pellentesque.ut.ipsum@neque.ca
16950313 6823  Simon         Burton Gates      592-6919       tellus.justo.sit@commodoauctor.net
16850708 3528  Kamal         Odysseus Salas    1-115-339-7678 dictum@nec.edu
16080205 9329  Xenos         Colin Curry       1-891-703-2664 vel@ullamcorpermagna.co.uk
16080628 2695  Merritt       Clarke Roman      1-978-632-5110 Aliquam.gravida@vestibulumMauris.net
16130909 2979  Ryder         Joel Cunningham   817-1766       interdum.Curabitur.dictum@rutrumurna.edu
16890212 8688  Preston       Brock Schroeder   1-675-400-4501 et.ultrices@a.co.uk
16141008 9963  Alec          Baker Barton      527-9085       ut@aultriciesadipiscing.ca
16511222 7763  Price         Ashton Burke      1-564-419-4285 Proin.velit@Duisac.net
16720623 0943  Devin         Slade Flores      977-6690       ac@nibhAliquamornare.com
16771126 7372  Ignatius      Lionel Kane       353-5137       cubilia.Curae.Phasellus@Duis.com
```

```
PS E:\kuliah\SEM2\ASD\22_Naufal_UTS> & 'C:\Program Files\Java\jdk1.8.0_202\bin\java.exe' '-cp' 'C:\Users\Noe\AppD
dhat.java\jdt_ws\22_Naufal_UTS_fc3ece35\bin' 'MainTransaksi22'
================================
                UTS
================================
1. Tampil Data rekening
2. Tampil Data transaksi
3. Mencari saldo > 500000
4. Sorting by name
5. Keluar
Pilih (1-5) : 2
No Rekening      saldo        saldoAwal      saldoAkhir     tanggalTransaksitype
16030927 3084    898214.0     494048.0       3587.0         2021-03-09 07:54:42
16100617 0573    205420.0     200162.0       775880.0       2021-06-25 10:23:00
16240401 2243    838632.0     350929.0       328316.0       2021-09-18 23:00:04
16270525 0112    230659.0     204434.0       690503.0       2022-02-02 19:10:34
16971204 2416    770592.0     334245.0       444267.0       2020-08-11 13:36:56
16100727 8862    685302.0     451002.0       376442.0       2020-05-23 07:34:53
16460329 4259    816129.0     851403.0       597842.0       2021-07-18 19:41:20
16320421 3437    989609.0     333823.0       802752.0       2022-02-01 01:13:11
16180729 7229    297103.0     396116.0       779589.0       2021-07-03 01:09:49
16950313 6823    66190.0      259150.0       619774.0       2021-09-09 03:57:30
16850708 3528    234301.0     278309.0       547922.0       2021-08-24 13:18:39
16080205 9329    243306.0     869468.0       50283.0        2021-03-12 03:40:16
16080628 2695    371045.0     991242.0       602034.0       2021-08-06 11:48:59
16130909 2979    395170.0     97058.0        472273.0       2021-05-02 10:53:31
16890212 8688    862731.0     561908.0       109431.0       2021-07-31 08:11:00
16141008 9963    556798.0     31387.0        725426.0       2021-03-27 06:18:20
16511222 7763    873982.0     896213.0       846142.0       2021-07-18 04:06:30
16720623 0943    774247.0     739406.0       775848.0       2020-10-24 01:39:00
16771126 7372    66987.0      823014.0       868772.0       2020-12-21 05:57:59
```

```
PS E:\kuliah\SEM2\ASD\22_Naufal_UTS>  & 'C:\Program Files
dhat.java\jdt_ws\22_Naufal_UTS_fc3ece35\bin' 'MainTransak
================================
             UTS
================================
1. Tampil Data rekening
2. Tampil Data transaksi
3. Mencari saldo > 500000
4. Sorting by name
5. Keluar
Pilih (1-5) : 3
Daftar No Rekening dengan Saldo di atas 500000:
------------------------------------------------------
16100617 0573  775880.00
16270525 0112  690503.00
16460329 4259  597842.00
16320421 3437  802752.00
16180729 7229  779589.00
16950313 6823  619774.00
16850708 3528  547922.00
16080628 2695  602034.00
16141008 9963  725426.00
16511222 7763  846142.00
16720623 0943  775848.00
16771126 7372  868772.00
```

```
PS E:\kuliah\SEM2\ASD\22_Naufal_UTS>  & 'C:\Program Files\Java\jdk1.8.0_202\bin\java.exe' '-cp' 'C:\Users\Noe\AppData\Roaming'
dhat.java\jdt_ws\22_Naufal_UTS_fc3ece35\bin' 'MainTransaksi22'
================================
             UTS
================================
1. Tampil Data rekening
2. Tampil Data transaksi
3. Mencari saldo > 500000
4. Sorting by name
5. Keluar
Pilih (1-5) : 4
No Rekening    Nama           Nama Ibu            Phone           Email
16320421 3437  Alec           Cooper Lee          792-4447        non@mus.com
16141008 9963  Alec           Baker Barton        527-9085        ut@aultriciesadipiscing.ca
16100617 0573  Darius         Julian Daniel       1-357-843-0547  nec@lectusjusto.org
16720623 0943  Devin          Slade Flores        977-6690        ac@nibhAliquamornare.com
16240401 2243  Fuller         Finn Dunlap         571-7062        convallis@Vestibulumanteipsum.org
16971204 2416  Geoffrey       Stephen Pratt       1-683-416-8323  ut.pellentesque@luctusutpellentesque.com
16771126 7372  Ignatius       Lionel Kane         353-5137        cubilia.Curae.Phasellus@Duis.com
16850708 3528  Kamal          Odysseus Salas      1-115-339-7678  dictum@nec.edu
16270525 0112  Malcolm        Keane Floyd         623-0234        porttitor.tellus.non@Curabitur.ca
16080628 2695  Merritt        Clarke Roman        1-978-632-5110  Aliquam.gravida@vestibulumMauris.net
16890212 8688  Preston        Brock Schroeder     1-675-400-4501  et.ultrices@a.co.uk
16511222 7763  Price          Ashton Burke        1-564-419-4285  Proin.velit@Duisac.net
16100727 8862  Rudyard        Charles Morales     650-5379        Proin.eget@velitegestaslacinia.ca
16130909 2979  Ryder          Joel Cunningham     817-1766        interdum.Curabitur.dictum@rutrumurna.edu
16950313 6823  Simon          Burton Gates        592-6919        tellus.justo.sit@commodoauctor.net
16460329 4259  Troy           Damon Guerra        897-7608        pede.Suspendisse.dui@a.ca
16030927 3084  Wallace        Chase Castro        1-458-264-3263  ligula.Nullam@tacitisociosqu.edu
16180729 7229  Walter         Seth Drake          863-8209        Pellentesque.ut.ipsum@neque.ca
16080205 9329  Xenos          Colin Curry         1-891-703-2664  vel@ullamcorpermagna.co.uk
```

```
PS E:\kuliah\SEM2\ASD\22_Naufal_UTS>  & 'C:\Progra
dhat.java\jdt_ws\22_Naufal_UTS_fc3ece35\bin' 'Main
================================
                UTS
================================
1. Tampil Data rekening
2. Tampil Data transaksi
3. Mencari saldo > 500000
4. Sorting by name
5. Keluar
Pilih (1-5) : 5
Terimakasih telah menggunakan bank naufal!!
```