

ALGORITMA DAN STRUKTUR DATA

UTS



Nama : Fatima Sitta Maulidia

NIM : 2341760167

Prodi : D-IV Sistem Informasi Bisnis

JURUSAN TEKNOLOGI INFORMASI
POLITEKNIK NEGERI MALANG
2023/2024

Percobaan 1

1. Berikut adalah hasil dari codingan pada file Rekening12.

```
1  import java.util.ArrayList;
2  import java.util.Collections;
3  import java.util.Comparator;
4
5  public class Rekening12 {
6      private String noRekening;
7      private String nama;
8      private String namaIbu;
9      private String phone;
10     private String email;
11
12     public Rekening12(String noRekening, String nama, String namaIbu, String phone, String email) {
13         this.noRekening = noRekening;
14         this.nama = nama;
15         this.namaIbu = namaIbu;
16         this.phone = phone;
17         this.email = email;
18     }
19
20     public String getNoRekening() {
21         return noRekening;
22     }
23
24     public String getNama() {
25         return nama;
26     }
27
28     public String getNamaIbu() {
29         return namaIbu;
30     }
31
32     public String getPhone() {
33         return phone;
34     }
35
36     public String getEmail() {
37         return email;
38     }
39
40     @Override
41     public String toString() {
42         return String.format("%-18s %-11s %-16s %-17s %s", noRekening, nama, namaIbu, phone, email);
43     }
44
45     public Transaksi12 getTransaksiTerbaru(ArrayList<Transaksi12> dataTransaksi) {
46         throw new UnsupportedOperationException("Unimplemented method 'getTransaksiTerbaru'");
47     }
48 }
```

2. Berikut adalah hasil dari codingan pada file Transaksi12.

```
1  public class Transaksi12 {
2      private double saldo;
3      private double saldoAwal;
4      private double saldoAkhir;
5      private String tanggalTransaksi;
6      private String noRekening;
7
8      public Transaksi12(double saldo, double saldoAwal, double saldoAkhir, String tanggalTransaksi, String noRekening) {
9          this.saldo = saldo;
10         this.saldoAwal = saldoAwal;
11         this.saldoAkhir = saldoAkhir;
12         this.tanggalTransaksi = tanggalTransaksi;
13         this.noRekening = noRekening;
14     }
15
16     public String getNoRekening() {
17         return noRekening;
18     }
19
20     public double getSaldo() {
21         return saldo;
22     }
23
24     public double getSaldoAwal() {
25         return saldoAwal;
26     }
27
28     public double getSaldoAkhir() {
29         return saldoAkhir;
30     }
31
32     public String getTanggalTransaksi() {
33         return tanggalTransaksi;
34     }
35
36     @Override
37     public String toString() {
38         return String.format("%-10s %-15s %-15s %s", saldo, saldoAwal, saldoAkhir, tanggalTransaksi);
39     }
40 }
```

3. Berikut adalah hasil dari codingan pada file MainTransaksi12.

4. Berikut adalah hasil outputnya.

```
Menu:
1. Tampil data rekening
2. Tampil data transaksi
3. Mencari saldo > 500000
4. Sorting by name
5. Keluar
Masukkan pilihan: 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.ipsu@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@ullamcorper@magna.co.uk
16080628 2695      Merritt     Clarke Roman   1-978-632-5110  Aliquam.gravida@vestibulumMauris.nett
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
-----
```

```
Menu:
1. Tampil data rekening
2. Tampil data transaksi
3. Mencari saldo > 500000
4. Sorting by name
5. Keluar
Masukkan pilihan: 2

-----
Saldo      Saldo Awal      Saldo Akhir      Tanggal Transaksi
-----
898214.0   494048.0         3587.0           2021-03-09 07:54:42
205420.0   200162.0         775880.0         2021-06-25 10:23:00
838632.0   350929.0         328316.0         2021-09-18 23:00:04
230659.0   204434.0         690503.0         2022-02-02 19:10:34
770592.0   334245.0         444267.0         2020-08-11 13:36:56
685302.0   451002.0         376442.0         2020-05-23 07:34:53
816129.0   851403.0         597842.0         2021-07-18 19:41:20
989609.0   333823.0         802752.0         2022-02-01 01:13:11
297103.0   396116.0         779589.0         2021-07-03 01:09:49
66190.0    259150.0         619774.0         2021-09-09 03:57:30
234301.0   278309.0         547922.0         2021-08-24 13:18:39
243306.0   869468.0         50283.0          2021-03-12 03:40:16
371045.0   991242.0         602034.0         2021-08-06 11:48:59
395170.0   97058.0          472273.0         2021-05-02 10:53:3
862731.0   561908.0         109431.0         2021-07-31 08:11:00
556798.0   31387.0          725426.0         2021-03-27 06:18:20
873982.0   896213.0         846142.0         2021-07-18 04:06:30
774247.0   739406.0         775848.0         2020-10-24 01:39:00
66987.0    823014.0         868772.0         2020-12-21 05:57:59
-----
```

Menu:

1. Tampil data rekening
2. Tampil data transaksi
3. Mencari saldo > 500000
4. Sorting by name
5. Keluar

Masukkan pilihan: 3

Transaksi dengan saldo awal > 500000:

Saldo	Saldo Awal	Saldo Akhir	Tanggal Transaksi
816129.0	851403.0	597842.0	2021-07-18 19:41:20
243306.0	869468.0	50283.0	2021-03-12 03:40:16
371045.0	991242.0	602034.0	2021-08-06 11:48:59
862731.0	561908.0	109431.0	2021-07-31 08:11:00
873982.0	896213.0	846142.0	2021-07-18 04:06:30
774247.0	739406.0	775848.0	2020-10-24 01:39:00
66987.0	823014.0	868772.0	2020-12-21 05:57:59

Menu:

1. Tampil data rekening
2. Tampil data transaksi
3. Mencari saldo > 500000
4. Sorting by name
5. Keluar

Masukkan pilihan: 4

Data rekening setelah diurutkan berdasarkan nama:

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.Currae.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.nett
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.ipsun@neque.ca
16080205 9329	Xenos	Colin Curry	1-891-703-2664	vel@ullamcorper magna.co.uk

Menu:

1. Tampil data rekening
2. Tampil data transaksi
3. Mencari saldo > 500000
4. Sorting by name
5. Keluar

Masukkan pilihan: 5

BUILD SUCCESSFUL (0 seconds)

PS D:\sitta\class of '24\prak asd\12_Sitta_UTS>