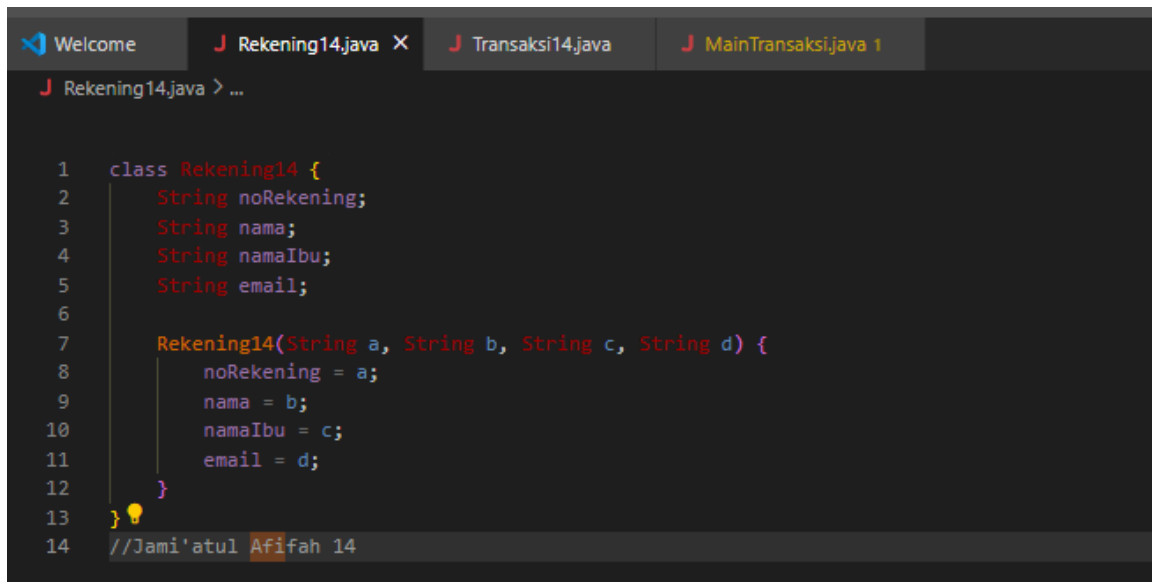Nama   : Jami'atul Afifah

Kelas   : 1F SIB

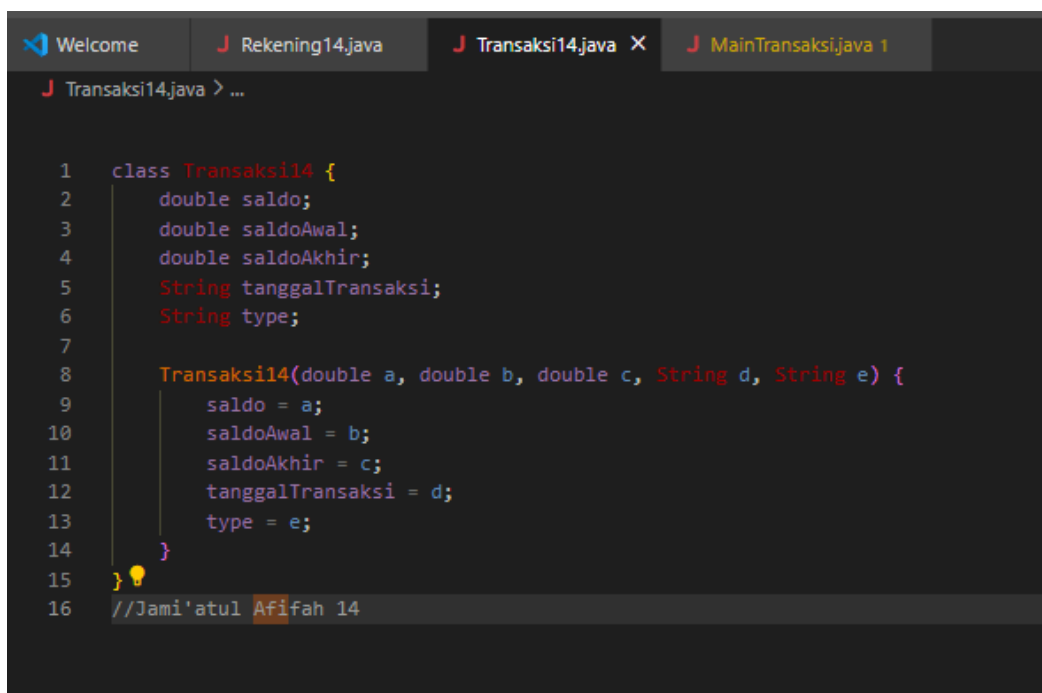No.   : 14

# UTS

File Rekening14.java

```java
class Rekening14 {
    String noRekening;
    String nama;
    String namaIbu;
    String email;

    Rekening14(String a, String b, String c, String d) {
        noRekening = a;
        nama = b;
        namaIbu = c;
        email = d;
    }
}
//Jami'atul Afifah 14
```

File Transaksi14.java

```java
class Transaksi14 {
    double saldo;
    double saldoAwal;
    double saldoAkhir;
    String tanggalTransaksi;
    String type;

    Transaksi14(double a, double b, double c, String d, String e) {
        saldo = a;
        saldoAwal = b;
        saldoAkhir = c;
        tanggalTransaksi = d;
        type = e;
    }
}
//Jami'atul Afifah 14
```

File MainTransaksi.java

```java
import java.util.Scanner;

public class MainTransaksi {
    static Rekening14[] rekenings = {
        new Rekening14(a:"16030927 3084", b:"Wallace", c:"Chase Castro", d:"ligula.Nullam@tacitisociosqu.edu"),
        new Rekening14(a:"16100617 0573", b:"Darius", c:"Julian Daniel", d:"nec@lectusjusto.org"),
        new Rekening14(a:"16240401 2243", b:"Fuller", c:"Finn Dunlap", d:"convallis@Vestibulumanteipsum.org"),
        new Rekening14(a:"16270525 0112", b:"Malcolm", c:"Keane Floyd", d:"porttitor.tellus.non@Curabitur.ca"),
        new Rekening14(a:"16971204 2416", b:"Geofrey", c:"Stephen Pratt", d:"ut.pellentesque@luctusutpellentesque.com"),
        new Rekening14(a:"16100727 8862", b:"Rudyard", c:"Charles Morales", d:"Proin.eget@velitegestaslacinia.ca"),
        new Rekening14(a:"16460329 4259", b:"Troy", c:"Damon Guerra", d:"pede.Suspendisse.dui@a.ca"),
        new Rekening14(a:"16320421 3437", b:"Alec", c:"Cooper Lee", d:"non@mus.com"),
        new Rekening14(a:"16180729 7229", b:"Walter", c:"Seth Drake", d:"Pellentesque.ut.ipsum@neque.ca"),
        new Rekening14(a:"16950313 6823", b:"Simon", c:"Burton Gates", d:"tellus.justo.sit@commodoauctor.net"),
        new Rekening14(a:"16850708 3528", b:"Kamal", c:"Odysseus Salas", d:"dictum@nec.edu"),
        new Rekening14(a:"16080205 9329", b:"Xenos", c:"Colin Curry", d:"vel@ullamcorpermagna.co.uk"),
        new Rekening14(a:"16080628 2695", b:"Merritt", c:"Clarke Roman", d:"Aliquam.gravida@vestibulumMauris.net"),
        new Rekening14(a:"16130909 2979", b:"Ryder", c:"Joel Cunningham", d:"interdum.Curabitur.dictum@rutrumurna.edu"),
        new Rekening14(a:"16890212 8688", b:"Preston", c:"Brock Schroeder", d:"et.ultrices@a.co.uk"),
        new Rekening14(a:"16141008 9963", b:"Alec", c:"Baker Barton", d:"ut@aultriciesadipiscing.ca"),
        new Rekening14(a:"16511222 7763", b:"Price", c:"Ashton Burke", d:"Proin.velit@Quisac.net"),
        new Rekening14(a:"16720623 0943", b:"Devin", c:"Slade Flores", d:"ac@nibhAliquamornare.com"),
        new Rekening14(a:"16771126 7372", b:"Ignatus", c:"Lionel Kane", d:"cubilia.Curae.Phasellus@Duis.com")
    };

    static Transaksi14[] transaksis = {
        new Transaksi14(a:898214, b:494048, c:3587, d:"2021-03-09 07:54:42", e:""),
        new Transaksi14(a:205420, b:200162, c:775880, d:"2021-06-25 10:23:00", e:""),
        new Transaksi14(a:838632, b:350929, c:328316, d:"2021-09-18 23:00:04", e:""),
        new Transaksi14(a:230659, b:204434, c:690503, d:"2022-02-02 19:10:34", e:""),
        new Transaksi14(a:770592, b:334245, c:444267, d:"2020-08-11 13:36:56", e:""),
        new Transaksi14(a:685302, b:451002, c:376442, d:"2020-05-23 07:34:53", e:""),
        new Transaksi14(a:816129, b:851403, c:597842, d:"2021-07-18 19:41:20", e:""),
        new Transaksi14(a:989609, b:333823, c:802752, d:"2022-02-01 01:13:11", e:""),
        new Transaksi14(a:297103, b:396116, c:779589, d:"2021-07-03 01:09:49", e:""),
        new Transaksi14(a:66190, b:259150, c:619774, d:"2021-09-09 03:57:30", e:""),
        new Transaksi14(a:234301, b:278309, c:547922, d:"2021-08-24 13:18:39", e:""),
        new Transaksi14(a:243306, b:869468, c:50283, d:"2021-03-12 03:40:16", e:""),
        new Transaksi14(a:371045, b:991242, c:602034, d:"2021-08-06 11:48:59", e:""),
        new Transaksi14(a:395170, b:97058, c:472273, d:"2021-05-02 10:53:31", e:""),
        new Transaksi14(a:862731, b:561908, c:109431, d:"2021-07-31 08:11:00", e:""),
        new Transaksi14(a:556798, b:31387, c:725426, d:"2021-03-27 06:18:20", e:""),
        new Transaksi14(a:873982, b:896213, c:846142, d:"2021-07-18 04:06:30", e:""),
        new Transaksi14(a:774247, b:739406, c:775848, d:"2020-10-24 01:39:00", e:""),
        new Transaksi14(a:66987, b:823014, c:868772, d:"2020-12-21 05:57:59", e:"")
    };

    // Run | Debug
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int choice;

        do {
            System.out.println(x:" ");
            System.out.println(x:"---------UTS AFIFAH---------");
            System.out.println(x:"1. Tampil data rekening");
            System.out.println(x:"2. Tampil data transaksi");
            System.out.println(x:"3. Mencari saldo > 500.000");
            System.out.println(x:"4. Sorting by name");
            System.out.println(x:"5. Keluar");
            System.out.println(x:"---------------------------");
            System.out.print(s:"Pilih(1-5): ");
            choice = scanner.nextInt();

            switch (choice) {
                case 1:
                    tampilDataRekening();
                    break;
                case 2:
                    tampilDataTransaksi();
                    break;
                case 3:
                    mencariSaldoLebihDari500000();
                    break;
                case 4:
                    sortingByName();
                    break;
                case 5:
                    System.out.println(x:"Terima kasih!");
                    break;
                default:
                    System.out.println(x:"Pilihan tidak valid. Silakan pilih 1-5.");
            }
        } while (choice != 5);
    }
}
```

```java
 86      static void tampilDataRekening() {
 87          System.out.println(x:" ");
 88          System.out.println(x:"No Rekening\tNama\t\tNama Ibu\tEmail");
 89          for (Rekening14 rekening : rekenings) {
 90              System.out.println(rekening.noRekening + "\t" + rekening.nama + "\t\t" + rekening.namaIbu + "\t" + rekening.email);
 91          }
 92      }
 93
 94      static void tampilDataTransaksi() {
 95          System.out.println(x:" ");
 96          System.out.println(x:"Saldo\tSaldo Awal\tSaldo Akhir\tTanggal Transaksi\t\tType");
 97          for (Transaksi14 transaksi : transaksis) {
 98              System.out.println(transaksi.saldo + "\t" + transaksi.saldoAwal + "\t" + transaksi.saldoAkhir + "\t\t"
 99                      + transaksi.tanggalTransaksi + "\t" + transaksi.type);
100          }
101      }
102
103      static void mencariSaldoLebihDari500000() {
104          System.out.println(x:" ");
105          System.out.println(x:"Saldo lebih dari 500000:");
106          System.out.println(x:"Saldo\tSaldo Awal\tSaldo Akhir\tTanggal Transaksi\t\tType");
107          for (Transaksi14 transaksi : transaksis) {
108              if (transaksi.saldo > 500000) {
109                  System.out.println(transaksi.saldo + "\t" + transaksi.saldoAwal + "\t" + transaksi.saldoAkhir + "\t\t"
110                          + transaksi.tanggalTransaksi + "\t" + transaksi.type);
111              }
112          }
113      }
```

```java
114      }
115      static void sortingByName() {
116
117          for (int i = 0; i < rekenings.length - 1; i++) {
118              for (int j = 0; j < rekenings.length - i - 1; j++) {
119                  if (rekenings[j].nama.compareTo(rekenings[j + 1].nama) > 0) {
120
121                      Rekening14 temp = rekenings[j];
122                      rekenings[j] = rekenings[j + 1];
123                      rekenings[j + 1] = temp;
124                  }
125              }
126          }
127
128          System.out.println(x:" ");
129          System.out.println(x:"Data rekening setelah diurutkan berdasarkan nama:");
130          System.out.println(x:"No Rekening\tNama\t\tNama Ibu\tEmail");
131          for (Rekening14 rekening : rekenings) {
132              System.out.println(rekening.noRekening + "\t" + rekening.nama + "\t\t" + rekening.namaIbu + "\t" + rekening.email);
133          }
134      }
135  }
136  // Jami'atul Afifah 14
```

Hasil Output :

```
---------UTS AFIFAH---------
1. Tampil data rekening
2. Tampil data transaksi
3. Mencari saldo > 500.000
4. Sorting by name
5. Keluar
-----------------------------
Pilih(1-5): 1

No Rekening     Nama        Nama Ibu        Email
16030927 3084   Wallace     Chase Castro    ligula.Nullam@tacitisociosqu.edu
16100617 0573   Darius      Julian Daniel   nec@lectusjusto.org
16240401 2243   Fuller      Finn Dunlap     convallis@Vestibulumanteipsum.org
16270525 0112   Malcolm     Keane Floyd     porttitor.tellus.non@Curabitur.ca
16971204 2416   Geofrey     Stephen Pratt   ut.pellentesque@luctusutpellentesque.com
16100727 8862   Rudyard     Charles Morales Proin.eget@velitegestaslacinia.ca
16460329 4259   Troy        Damon Guerra    pede.Suspendisse.dui@a.ca
16320421 3437   Alec        Cooper Lee      non@mus.com
16180729 7229   Walter      Seth Drake      Pellentesque.ut.ipsum@neque.ca
16950313 6823   Simon       Burton Gates    tellus.justo.sit@commodoauctor.net
16850708 3528   Kamal       Odysseus Salas  dictum@nec.edu
16080205 9329   Xenos       Colin Curry     vel@ullamcorpermagna.co.uk
16080628 2695   Merritt     Clarke Roman    Aliquam.gravida@vestibulumMauris.net
16130909 2979   Ryder       Joel Cunningham interdum.Curabitur.dictum@rutrumurna.edu
16890212 8688   Preston     Brock Schroeder et.ultrices@a.co.uk
16141008 9963   Alec        Baker Barton    ut@aultriciesadipiscing.ca
16511222 7763   Price       Ashton Burke    Proin.velit@Duisac.net
16720623 0943   Devin       Slade Flores    ac@nibhAliquamornare.com
16771126 7372   Ignatus     Lionel Kane     cubilia.Curae.Phasellus@Duis.com

---------UTS AFIFAH---------
1. Tampil data rekening
2. Tampil data transaksi
3. Mencari saldo > 500.000
4. Sorting by name
5. Keluar
-----------------------------
Pilih(1-5):
```

1.

```
---------UTS AFIFAH---------
1. Tampil data rekening
2. Tampil data transaksi
3. Mencari saldo > 500.000
4. Sorting by name
5. Keluar
---------------------------
Pilih(1-5): 2

Saldo    Saldo Awal     Saldo Akhir    Tanggal Transaksi           Type
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 10:53:31
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

---------UTS AFIFAH---------
1. Tampil data rekening
2. Tampil data transaksi
3. Mencari saldo > 500.000
4. Sorting by name
5. Keluar
---------------------------
Pilih(1-5): []
```

2.

```
---------UTS AFIFAH---------
1. Tampil data rekening
2. Tampil data transaksi
3. Mencari saldo > 500.000
4. Sorting by name
5. Keluar
---------------------------
Pilih(1-5): 3

Saldo lebih dari 500000:
Saldo    Saldo Awal     Saldo Akhir    Tanggal Transaksi           Type
898214.0        494048.0       3587.0         2021-03-09 07:54:42
838632.0        350929.0       328316.0               2021-09-18 23:00:04
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
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

---------UTS AFIFAH---------
1. Tampil data rekening
2. Tampil data transaksi
3. Mencari saldo > 500.000
4. Sorting by name
5. Keluar
---------------------------
Pilih(1-5): []
```

3.

4.

```
---------UTS AFIFAH---------
1. Tampil data rekening
2. Tampil data transaksi
3. Mencari saldo > 500.000
4. Sorting by name
5. Keluar
----------------------------
Pilih(1-5): 4

Data rekening setelah diurutkan berdasarkan nama:
No Rekening      Nama          Nama Ibu       Email
16320421 3437    Alec          Cooper Lee     non@mus.com
16141008 9963    Alec          Baker Barton   ut@aultriciesadipiscing.ca
16100617 0573    Darius        Julian Daniel  nec@lectusjusto.org
16720623 0943    Devin         Slade Flores   ac@nibhAliquamornare.com
16240401 2243    Fuller        Finn Dunlap    convallis@Vestibulumanteipsum.org
16971204 2416    Geofrey       Stephen Pratt  ut.pellentesque@luctusutpellentesque.com
16771126 7372    Ignatus       Lionel Kane    cubilia.Curae.Phasellus@Duis.com
16850708 3528    Kamal         Odysseus Salas dictum@nec.edu
16270525 0112    Malcolm       Keane Floyd    porttitor.tellus.non@Curabitur.ca
16080628 2695    Merritt       Clarke Roman   Aliquam.gravida@vestibulumMauris.net
16890212 8688    Preston       Brock Schroeder et.ultrices@a.co.uk
16511222 7763    Price         Ashton Burke   Proin.velit@Duisac.net
16100727 8862    Rudyard       Charles Morales Proin.eget@velitegestaslacinia.ca
16130909 2979    Ryder         Joel Cunningham interdum.Curabitur.dictum@rutrumurna.edu
16950313 6823    Simon         Burton Gates   tellus.justo.sit@commodoauctor.net
16460329 4259    Troy          Damon Guerra   pede.Suspendisse.dui@a.ca
16030927 3084    Wallace       Chase Castro   ligula.Nullam@tacitisociosqu.edu
16180729 7229    Walter        Seth Drake     Pellentesque.ut.ipsum@neque.ca
16080205 9329    Xenos         Colin Curry    vel@ullamcorpermagna.co.uk

---------UTS AFIFAH---------
1. Tampil data rekening
2. Tampil data transaksi
3. Mencari saldo > 500.000
4. Sorting by name
5. Keluar
----------------------------
Pilih(1-5): 
```

5.

```
----------UTS AFIFAH----------
1. Tampil data rekening
2. Tampil data transaksi
3. Mencari saldo > 500.000
4. Sorting by name
5. Keluar
-------------------------------
Pilih(1-5): 5
Terima kasih!
```