KEMENTERIAN PENDIDIKAN, KEBUDAYAAN
RISET, DAN TEKNOLOGI
POLITEKNIK NEGERI MALANG
JURUSAN TEKNOLOGI INFORMASI

Jl. Soekarno Hatta No.9 Jatimulyo, Lowokwaru, Malang, 65141
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Mid Test 2023/2024

Course   : Algorithm and Data Structure Practicum
Kelas   : SIB I
Day, Date   : Tuesday, April 16th 2024
Time   : 13.00 – 17.00
Lecturer   : Rokhimatul Wakhidah, S.Pd., M.T.

Exam Instructions

1. Practical exams are honest and open

2. Please do it at your respective places.

3. The results of the work are in the form of a file in one folder containing the Java project and a PDF screen shot file resulting from compilation and coding

4. All work is uploaded to the LMS in one zip with just the NAME file naming format.

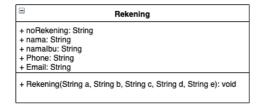5. The same code structure is not permitted. 30% of the code structure is the same, repeating UTS.

Exam questions

1. Create a banking information system consisting of 2 diagram classes, namely Accounts and Transactions. In this information system you can

a. input data,

b. display data,

c. sort data by certain criteria, and

/ Mengurutkan data transaksi berdasarkan saldo
Collections.sort(transaksiList, Comparator.comparing(Transaksi::getSaldo));

d. search for data

Rekening
+ noRekening: String + nama: String + namalbu: String + Phone: String + Email: String
+ Rekening(String a, String b, String c, String d, String e): void

Transaksi
+ saldo: double + saldoAwal: double + saldoAkhir: double + tanggalTransaksi: String + type: String
+ Transaksi(double a, double b, double c, double d, double e): void

MainTransaksi
+ Main(String[] abcd): void

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```
PS C:\Users\HP>  & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-XX:+ShowCodeDet
ect\bin' 'MainTransaksi01'
Masukkan jumlah rekening: 2
------------------
Rekening ke-1
Nomor Rekening: 457758
Nama Pemilik: fitri
Saldo: 45060
------------------
Rekening ke-2
Nomor Rekening: 477484
Nama Pemilik: cahya
Saldo: 60000

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Data Rekening:
Rekening{nomorRekening='457758', namaPemilik='fitri', saldo=45060.0}
Rekening{nomorRekening='477484', namaPemilik='cahya', saldo=60000.0}

Data Rekening setelah diurutkan berdasarkan Nomor Rekening:
Rekening{nomorRekening='457758', namaPemilik='fitri', saldo=45060.0}
Rekening{nomorRekening='477484', namaPemilik='cahya', saldo=60000.0}
==========================================
Masukkan Nomor Rekening yang ingin dicari: 477484

Rekening ditemukan:
Rekening{nomorRekening='477484', namaPemilik='cahya', saldo=60000.0}
PS C:\Users\HP>
```