Menu :

1. Input data
2. Searching
3. Transaksi
4. Exit

Pilih : 1

Input Data (data struct sesuai kelompok masing2, tersimpan di file, namafile diinput)

Banyaknya data : ….(terserah user)

Data ke -1

Field 1 : …

Field 2 : …

Field n : …

Data ke -n

Field 1 : …

Field 2 : …

Field n : …

Pilih : 2

Menu Searching :

1. Seq Search
2. Binary Search
3. Kembali ke Menu Utama

Pilih Searching : 2

Metode Sorting sebelum Binary Search : (hasil sorting tersimpan di file lain, namafile diinput)

1. Bubble Sort
2. Selection Sort
3. Insertion Sort
4. Shell Sort
5. Merge Sort
6. Quick Sort

Pilih sorting : …

MENU 3 - TRANSAKSI : (file yg akan dikenai menu ini sudah diinput melalui menu 1)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Transaksi (pilih 2 saja): |  |  |  |  |  | |  |  |  |
| 1. Konsolidasi |  |  |  |  | |  |  |  |
| 1. merging sambung |  |  |  |  | |  |  |  |
| 1. merging urut |  |  |  |  | |  |  |  |
| 1. updating |  |  |  |  | |  |  |  |
| 1. spliting |  |  |  |  | |  |  |  |
| contoh konsolidasi: |  |  |  |  |  | |  |  |  |
| terdapat file1.txt, dikonsolidasi menghasilkan file2.txt | file1.txt |  |  | file2.txt | |  |  |  |
|  | no | nilai |  | no | nilairata2 | |  |  |  |
|  | 1 | 10 |  | 1 | 15 | |  |  |  |
|  | 1 | 20 |  | 2 | 30 | |  |  |  |
|  | 2 | 40 |  | 3 | 70 | |  |  |  |
|  | 2 | 30 |  | 4 | 85 | |  |  |  |
|  | 2 | 20 |  |  |  | |  |  |  |
|  | 3 | 80 |  |  |  | |  |  |  |
|  | 3 | 60 |  |  |  | |  |  |  |
|  | 3 | 70 |  |  |  | |  |  |  |
|  | 4 | 85 |  |  |  | |  |  |  |
|  |  |  |  |  |  | |  |  |  |
| contoh merging sambung: | |  |  |  |  | |  |  |  |
| terdapat file1.txt dan file2.txt, dimerging menghasilkan file3.txt | file1.txt |  |  | file2.txt |  | |  | file3.txt |  |
|  | no | nilai |  | no | Nilai | |  | no | nilai |
|  | 1 | 10 |  | 3 | 15 | |  | 1 | 10 |
|  | 2 | 20 |  | 5 | 30 | |  | 2 | 20 |
|  | 4 | 40 |  | 7 | 70 | |  | 4 | 40 |
|  | 6 | 30 |  | 9 | 85 | |  | 6 | 30 |
|  | 8 | 20 |  |  |  | |  | 8 | 20 |
|  | 10 | 80 |  |  |  | |  | 10 | 80 |
|  | 11 | 60 |  |  |  | |  | 11 | 60 |
|  |  |  |  |  |  | |  | 3 | 15 |
|  |  |  |  |  |  | |  | 5 | 30 |
|  |  |  |  |  |  | |  | 7 | 70 |
|  |  |  |  |  |  | |  | 9 | 85 |
|  |  |  |  |  |  | |  |  |  |
| contoh merging urut: |  |  |  |  |  | |  |  |  |
| terdapat file1.txt dan file2.txt, dimerging menghasilkan file3.txt | file1.txt |  |  | file2.txt |  | |  | file3.txt |  |
|  | no | nilai |  | no | Nilai | |  | no | nilai |
|  | 1 | 10 |  | 3 | 15 | |  | 1 | 10 |
|  | 2 | 20 |  | 5 | 30 | |  | 2 | 20 |
|  | 4 | 40 |  | 7 | 70 | |  | 3 | 15 |
|  | 6 | 30 |  | 9 | 85 | |  | 4 | 40 |
|  | 8 | 20 |  |  |  | |  | 5 | 30 |
|  | 10 | 80 |  |  |  | |  | 6 | 30 |
|  | 11 | 60 |  |  |  | |  | 7 | 70 |
|  |  |  |  |  |  | |  | 8 | 20 |
|  |  |  |  |  |  | |  | 9 | 85 |
|  |  |  |  |  |  | |  | 10 | 80 |
|  |  |  |  |  |  | |  | 11 | 60 |
|  |  |  |  |  |  | |  |  |  |
|  |  |  |  |  |  | |  |  |  |
| contoh updating: |  |  |  |  |  | |  |  |  |
| terdapat file1.txt dan file2.txt, diupdate menghasilkan file3.txt | file1.txt |  |  | file2.txt |  | |  | file3.txt |  |
|  | norek | saldo |  | norek | Transaksi | |  | no | saldo |
|  | 1 | 10 |  | 1 | 10 | |  | 1 | 0 |
|  | 2 | 20 |  | 1 | -20 | |  | 2 | 20 |
|  | 3 | 40 |  | 3 | 40 | |  | 3 | 30 |
|  | 4 | 30 |  | 3 | -50 | |  | 4 | 30 |
|  | 5 | 20 |  | 5 | 20 | |  | 5 | 40 |
|  | 6 | 80 |  | 6 | 10 | |  | 6 | 100 |
|  | 7 | 60 |  | 6 | 10 | |  | 7 | 50 |
|  |  |  |  | 7 | -10 | |  |  |  |
|  |  |  |  |  |  | |  |  |  |
| contoh splitting: |  |  |  |  |  | |  |  |  |
| terdapat file1.txt, displit menghasilkan file2.txt dan file3.txt | file1.txt |  |  | file2.txt (nilai <50) | | |  | file3.txt (nilai>=50) | |
|  | no | nilai |  | no | Nilai | |  | no | nilai |
|  | 1 | 20 |  | 1 | 20 | |  | 4 | 79 |
|  | 2 | 45 |  | 2 | 45 | |  | 5 | 65 |
|  | 3 | 35 |  | 3 | 35 | |  | 8 | 89 |
|  | 4 | 79 |  | 6 | 44 | |  | 9 | 90 |
|  | 5 | 65 |  | 7 | 35 | |  |  |  |
|  | 6 | 44 |  | 10 | 25 | |  |  |  |
|  | 7 | 35 |  |  |  | |  |  |  |
|  | 8 | 89 |  |  |  | |  |  |  |
|  | 9 | 90 |  |  |  | |  |  |  |
|  | 10 | 25 |  |  |  | |  |  |  |