Source Code Linkedlist

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**Buatlah class dengan nama Node.java**

**Souce code:**

public class Node {  
private String data;  
private Node next;  
  
public Node (String isi){  
data = isi;  
}  
  
public void setNext(Node n){  
next = n;  
}  
  
public Node getNext(){  
return next;  
}  
  
public String getData(){  
return data;  
}  
}

**Buatlah class dengan nama LinkList.java**  
**Sourcs code :**

public class LinkList {

private Node first;

private Node last;

private Node index;

private Node temp;

public void addFirst(Node n){

if(last == null){

first = n;

last = n;

}

else {

n.setNext(first);

first = n;

}

}

public void addLast(Node n){

if(last==null){

last = n;

first = n;

}

else{

last.setNext(n);

last = n;

}

}

public void addAfterFirst(Node n){

if(last==null){

last=n;

first=n;

}

else if(first==last){

addLast(n);

}

else{

Node index = first.getNext();

n.setNext(index);

first.setNext(n);

}

}

public void addBeforeLast(Node n){

if(last==null){

last=n;

first=n;

}

else if(first==last){

addFirst(n);

}

else{

n.setNext(last);

Node index = first;

while (last !=index.getNext()){

index = index.getNext();

}

index.setNext(n);

}

}

public Node removeFirst(){

if(last==null || first==null){

System.out.println("Data Kosong");

}

else if(first==last){

first=null;

last=null;

}

else{

temp = first;

first = first.getNext();

}

return temp;

}

public Node removeAfterFirst(){

if (last==null || first==null){

System.out.println("data Kosong");

}

else if(first==last){

first=null;

last=null;

}

else{

Node temp = first.getNext();

if(first==last){

removeFirst();

}

else{

first.setNext(temp.getNext());

}

}

return temp;

}

public Node removeLast(){

if(last==null || first==null){

System.out.println("Data Kosong");

}

else if(last==first){

first=null;

last=null;

}

else{

Node temp = last;

Node index = first;

if(first==last){

removeFirst();

}

else{

while(index.getNext() != last){

index = index.getNext();

}

last = index;

last.setNext(null);

}

}

return temp;

}

public Node removeBeforeLast(){

if(last==null || first==null){

System.out.println("Data Kosong");

}

else if(last==first){

first = null;

last = null;

}

else{

Node temp = index;

Node index = first;

if(first==last){

removeFirst();

}

else{

while(index.getNext() != last){

index = index.getNext();

}

}

temp = index.getNext();

index.setNext(last);

}

return temp;

}

public Node remove(int posisi){

if(last==null || first==null){

System.out.print("Data Kosong");

}

else if(last==first){

first=null;

last=null;

}

else{

Node index = first;

for(int i = 0; i<=posisi-1; i++){

index = index.getNext();

}

Node temp = index.getNext();

index.setNext(temp);

}

return temp;

}

public void add(Node n, int posisi){

if(first==null){

addFirst(n);

}

else if(first==last){

addAfterFirst(n);

}

else{

Node index = first;

for(int i =0; i

}

}

**Buatlah class mainLinkList.java**

**Source code :**

import java.util.Scanner;

import java.util.Date;

public class mainLinkList {

public static void main(String []args){

LinkList objek = new LinkList();

boolean kondisi = true;

Scanner kal = new Scanner(System.in);

while(kondisi){

System.out.println("\n\n===============================");

System.out.println("Memilih menu.");

System.out.println("1. Input awal.");

System.out.println("2. Input akhir.");

System.out.println("3. Input setelah awal");

System.out.println("4. Input sebelum akhir.");

System.out.println("5. Hapus awal. ");

System.out.println("6. Hapus akhir.");

System.out.println("7. Lihat awal.");

System.out.println("8. Lihat akhir.");

System.out.println("9. Tampilkan waktu.");

System.out.println("0. Keluar.");

System.out.print("Memilih : ");

int menu = kal.nextInt();

if(menu==1){

System.out.print("Memasukan data : ");

String inAwal = kal.next();

Node n = new Node(inAwal);

objek.addFirst(n);

}

else if(menu==2){

System.out.print("Memasukan data : ");

String inAkhir = kal.next();

Node n = new Node(inAkhir);

objek.addLast(n);

}

else if(menu==3){

System.out.print("Memasukan data : ");

String inSetAwal = kal.next();

Node n = new Node(inSetAwal);

objek.addAfterFirst(n);

}

else if(menu==4){

System.out.print("Memasukan data : ");

String inSetAkhir = kal.next();

Node n = new Node(inSetAkhir);

objek.addBeforeLast(n);

}

else if(menu==5){

objek.removeFirst();

}

else if(menu==6){

objek.removeLast();

}

else if(menu==7){

Node n = objek.getFirst();

System.out.println(">> "+n.getData());

}

else if(menu==8){

Node n = objek.getLast();

System.out.println(">> "+n.getData());

}

else if(menu==9){

Date dt = new Date();

int detik = dt.getSeconds();

int menit = dt.getMinutes();

int jam = dt.getHours();

int har = dt.getDay();

int tanggal = dt.getDate();

int month = dt.getMonth();

int tahun =dt.getYear();

//yang menentukan am pm

String wkt = "AM";

if(jam>12){

wkt = "PM";

}

System.out.print("\n===================================\n");

String[] ha = {"Minggu", "Senin", "Selasa", "Rabu", "Kamis", "Jum,at",

"Sabtu"};

String[] bulan = {"January", "February", "Maret", "April", "Mei", "Juni",

"Juli", "Agustus", "September", "Oktober", "November", "Desember"};

System.out.print("Sekarang : "+jam+":"+menit+" "+wkt+"\npada "+ha[har]+

" Tgl : "+tanggal+", Bln : "+bulan[month]+" 2013");

System.out.print("\n===================================\n");

}

else if(menu==0){

System.exit(0);

kondisi = false;

}

else{

System.out.println("Situ ngisi inputnya nggak sesuai aturan,

matiin aja laptopnya");

System.exit(0);

kondisi = false;

}

}

}

}