1.soru:

**package** oğrencikayıt;

**public** **class** ogrnode {

String data;

**double** ortalama;

ogrnode next; }

**public** **class** ogrnot {

ogrnode head =**null**;

ogrnode tail =**null**;

**void** ekle (String x ,**double** y ) {

ogrnode eleman =**new** ogrnode ();

eleman.data=x;

eleman.ortalama=y;

eleman.next=**null**;

**if**(head==**null**){

head =eleman ;

tail =eleman;

System.***out***.println("Liste oluşturuldu"); }

**else**{

tail.next=eleman;

tail=eleman;

System.***out***.println("Eleman eklendi"); }}

**void** yazdır () {

**if** (head==**null**) {

System.***out***.println("liste boşş"); }

**else** {

ogrnode p=head;

**while**( p!=**null**) {

System.***out***.println(p.data+" ortalama:"+p.ortalama); p=p.next; }}}

**void** maxbul () {

**if** (head==**null**) {

System.***out***.println("liste boşş");

}

**else** {

ogrnode c = head;

ogrnode temp =head;

**while**(c.next!=**null**) {

**if** (c.next.ortalama>=temp.ortalama) {

c = c.next;

temp=c ;}

**else** {

c = c.next;}}

System.***out***.println("En yüksek not:"+temp.data+" "+temp.ortalama);

}}}

**public** **static** **void** main(String[] args) {

ogrnot a=**new** ogrnot();

a.ekle("faruk",10.2);

a.ekle("ahmet",55);

a.ekle("caner", 85.0);

a.ekle("berkay",25);

a.ekle("emre", 90.2);

a.yazdır();

a.maxbul();}}

2.soru

**package** kiloboy;

**public** **class** Node {

String isim;

**double** kilo;

**double** boy;

Node next;

**public** Node (String isim, **double** kilo , **double** boy) {

**this**.isim=isim;

**this**.kilo=kilo;

**this**.boy=boy/100;

**this**.next=**null**;

**public** **class** Hesap {

Node head;

**void** ekle (String isim,**double** kilo,**double** boy) {

Node eleman =**new** Node (isim ,kilo,boy);

**if** (head==**null**) {

head=eleman;

}

**else** {

Node p=head;

**while**(p.next!=**null**) {

p=p.next;

}

p.next=eleman;

}

}

**void** yazdır(){

Node p=head;

**while**(p!=**null**) {

System.***out***.println(p.isim+" boy:"+p.boy\*100+" kilo:"+p.kilo+" ");

p=p.next;

}} } } }

**public** **class** Uygulama {

**public** **static** **void** main(String[] args) {

Hesap a=**new** Hesap();

a.ekle("Ayşe", 45, 170);

a.ekle("Ali" , 78, 150);

a.ekle("Ahmet",56, 150);

a.ekle("Veli" ,65, 169);

a.ekle("Kemal",59, 163);

a.yazdır();

Node p=a.head;

**boolean** obez=**false**;

**while** (p!=**null**) {

**double** vki=p.kilo /(p.boy\*p.boy);

**if** (vki<18.5) {

System.***out***.println(p.isim+"-Düşük kilolu");

}

**else** **if** (vki>=18.5 && vki<24.99) {System.***out***.println(p.isim+"-Normal Kilolu");

}

**else** **if** (vki>=25 && vki<29.99) {System.***out***.println(p.isim+"-Fazla Kilolu");

}

**else** { System.***out***.println(p.isim+"-Obez");

obez=**true**;

}

p=p.next;

}

**if** (!obez) {

System.***out***.println("Obez kişi yok");

} }}

3.soru:

**package** çiftyönlü;

**public** **class** node {

**int** data;

node next;

node prev;

**public** node (**int** data) {

**this**.data=data;

next=**null**;

prev=**null**;

}}

**public** **class** sayı {

node head=**null**;

node tail=**null**;

**void** başaekle(**int** data) {

node eleman =**new** node (data);

**if**(head==**null**) {

head=eleman;

tail=eleman; }

**else** {

eleman.next=head;

head.prev=eleman;

head=eleman; } }

**void** arayaekle(**int** indis,**int** data) {

node eleman=**new** node (data);

**if** (head==**null**) {

head=eleman;

tail=eleman;

}

**else** **if** (head!=**null**&&indis==0) {

eleman.next=head;

head.prev=eleman;

head=eleman; }

**else**{

**int** n=0;

node temp=head;

**while**(temp!=**null**) {

temp=temp.next;

n++;

}

temp=head;

**if**(indis>n) {

tail.next=eleman;

eleman.prev=tail;

tail=eleman;}

**else** {

**int** i=0;

**while**(i!=indis) {

temp=temp.next;

i++;}

eleman.prev=temp.prev;

temp.prev.next=eleman ;

eleman.next=temp;

temp.prev=eleman;}} }

**void** yazdır(){

**if**(head==**null**) {

}

**else** {

node temp=head;

**while**(temp!=**null**) {

System.***out***.print(temp.data+"->");

temp=temp.next;

}}}}

**public** **class** uygulama {

**public** **static** **void** main(String[] args) {

sayı a=**new** sayı();

a.başaekle(98);

a.başaekle(93);

a.başaekle(88);

a.başaekle(80);

a.başaekle(69);

a.arayaekle(2,83);

a.yazdır(); }}

4.soru:

**package** dördüncüsoru;

**public** **class** Node {

**int** data;

Node next;

Node prev;

**public** Node (**int** data) {

**this**.data=data;

next=**null**;

prev=**null**; }}

**public** **class** çiftyönlü {

Node head=**null**;

Node tail=**null**;

**void** başaekle(**int** data) {

Node eleman =**new** Node (data);

**if**(head==**null**) {

head=eleman;

tail=eleman;

}

**else** {

eleman.next=head;

head.prev=eleman;

head=eleman;}}

**void** aradansil(**int** indis) {

**if**(head!=**null**) {

**if**(head.next==**null** &&indis<=0){

head=**null**;

tail=**null**; }

**else** **if** (head.next!=**null**&&indis<=0) {

head=head.next;

head.prev=**null**;

}

**else** {

**int** n=0;

Node temp=head;

**while** (temp!=**null**) {

n++;

temp=temp.next;

}

**if**(indis>=(n-1)) {

tail=tail.prev;

tail.next=**null**;

}

**else** {

temp=head;

**int** i=0;

**while**(i<indis) {

i++;

temp=temp.next;

}

temp.next.prev=temp.prev;

temp.prev.next=temp.next;

}}}}

**void** yazdır(){

**if**(head==**null**) {

}

**else** {

Node temp=head;

**while**(temp!=**null**) {

System.***out***.print(temp.data+"->");

temp=temp.next;

}

System.***out***.println("sonu");

}}}

**public** **class** uygulama {

**public** **static** **void** main(String[] args) {

çiftyönlü a=**new** çiftyönlü();

a.başaekle(4);

a.başaekle(3);

a.başaekle(2);

a.başaekle(1);

a.başaekle(0);

a.aradansil(3);

a.yazdır();}}

5.soru:

**package** beşincisoru;

**public** **class** node {

**int** data;

node next;

**public** node (**int** data) {

**this**.data=data;

**this**.next=**null**;

}}

**public** **class** bağlıliste {

node head =**null**;

node tail =**null**;

**void** ekle (**int** data )

{

node eleman =**new** node(data);

**if**(head==**null**){

head =eleman ;

tail=eleman;

System.***out***.println("Liste oluşturuldu");

}

tail.next=eleman;

tail=eleman;}

**void** terstenyazdırma() {

bağlıliste a=**new** bağlıliste();

node p=head;

**while**(p!=**null**) {

node eleman1=**new** node(p.data);

eleman1.next=a.head;

a.head=eleman1;

p=p.next;

}

System.***out***.println("Ters sıralanmış liste:");

a.yazdır();

}

**void** yazdır () {

node p=head;

**while**(p!=**null**) {

System.***out***.print(p.data+"-");

p=p.next;

}

System.***out***.println();

}}

**public** **class** uygulama {

**public** **static** **void** main(String[] args) {

bağlıliste b=**new** bağlıliste();

b.ekle(10);

b.ekle(20);

b.ekle(30);

b.ekle(40);

b.yazdır();

b.terstenyazdırma();

}

}