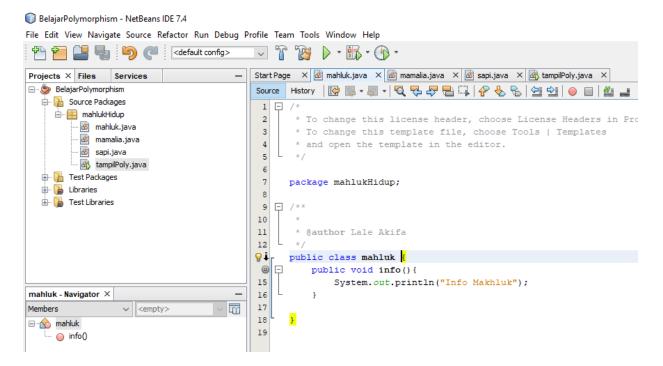
LATIHAN KASUS POLYMORPHISM (3 KASUS)

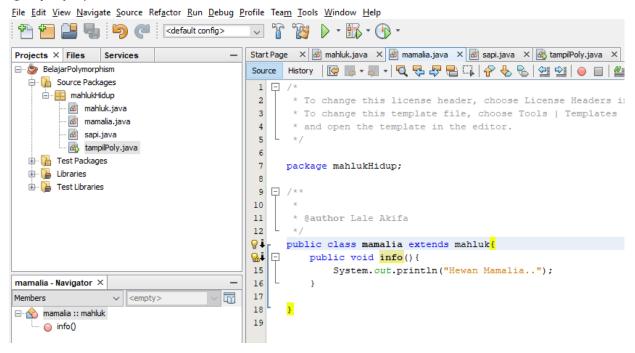
1. MahlukHidup

- a. Class mahluk
- b. Class mamalia
- c. Class sapi
- d. Class poly (tampil object)
- a. Class mahluk seperti gambar berikut



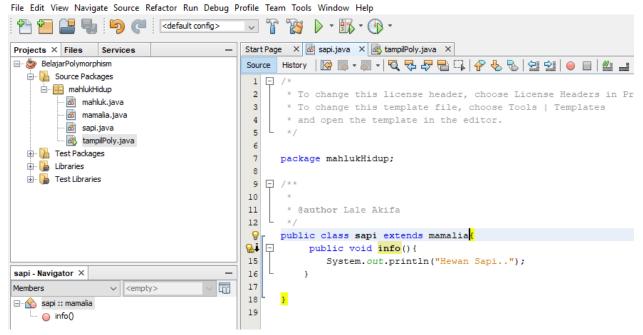
b. Class mamalia

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c. Class sapi

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d. Class tampilPoly

🕡 BelajarPolymorphism - NetBeans IDE 7.4 File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help 🔁 🔁 📳 🦃 <default config> ▽ ¼ છ ▷ · ∰ · ᠿ · Start Page × stampilPoly.java × Projects X Files Services ⊟... SelajarPolymorphism Source History | 🚱 💀 🔻 🔻 🗸 🖓 🖶 🖫 | 🖓 😓 🔁 🔯 | 🧼 🚇 📗 | 🐠 💂 🖨 🚡 Source Packages imahlukHidup 2 * To change this license header, choose License Headers in 1 ··· 🚳 mahluk.java 3 * To change this template file, choose Tools | Templates mamalia.java * and open the template in the editor. 4 · 🚳 sapi.java 5 tampilPoly.java ⊕ Test Packages package mahlukHidup; 7 i Libraries 8 ⊕ B Test Libraries 9 📮 /** 10 11 * @author Lale Akifa 12 13 public class tampilPoly { 14 public static void main(String[] args) 15 -Navigator × 16 mahluk tombol=new mahluk(); Members <</pre> v 100 17 tombol.info(); 18 mamalia mamalial=new mamalia(); 19 sapi sapiLombok=new sapi(); main(String[] args) 20 tombol=mamalial; tombol.info(); 21 //polymorphism 22 tombol=sapiLombok; tombol.info(); //polymorphism 23 24 25 }

Hasil:



26

2. deretHitung

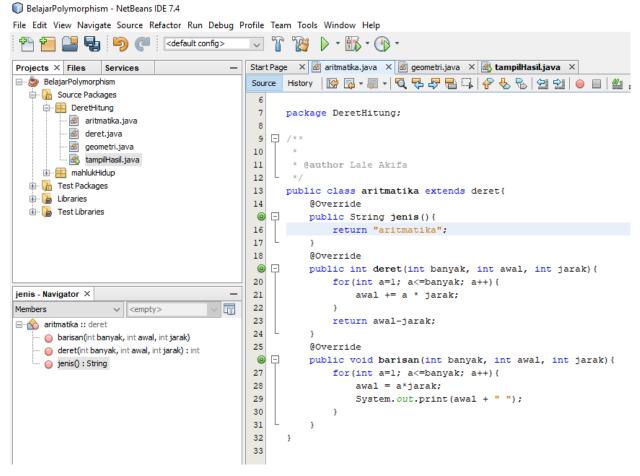
- a. Class deret
- b. Class aritmatika
- c. Class geometri
- d. Class tampilHasil

a. Class deret seperti gambar berikut :

BelajarPolymorphism - NetBeans IDE 7.4 File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help 🚰 🚰 🔩 崎 🎑 <default config> 🔽 🎖 🥦 🕽 · 🚯 · 🕦 · Start Page X deret.java X Projects × Files Services Source History | 😭 🔯 → 💹 → | 🔩 🐶 🖶 📮 | 🔐 😓 - | 🖆 💇 | 🥚 🔲 | 🐠 🚅 DeretHitung * To change this license header, choose License Headers in Proje --- 🚳 aritmatika.java * To change this template file, choose Tools | Templates ···· 🚳 deret.java * and open the template in the editor. */ --- 🚳 geometri.java 5 tampilHasil.java imahlukHidup package DeretHitung; ⊕ 🌇 Test Packages i Libraries 9 - /** ⊕ Test Libraries 10 * @author Lale Akifa
*/ 11 public class deret { 0 □ public String jenis(){ return ""; 15 Navigator × 16 @ <u></u> public int deret(int banyak, int awal, int jarak){ Members ✓ | <empty> ~ T 18 int deret = awal + jarak; ⊟... deret 19 return deret: obarisan(int banyak, int awal, int jarak) 20 ··· o deret(int banyak, int awal, int jarak): int 21 i... ojenis(): String @-E public void barisan(int banyak, int awal, int jarak) { 23 24 25 26

b. Class aritmatika

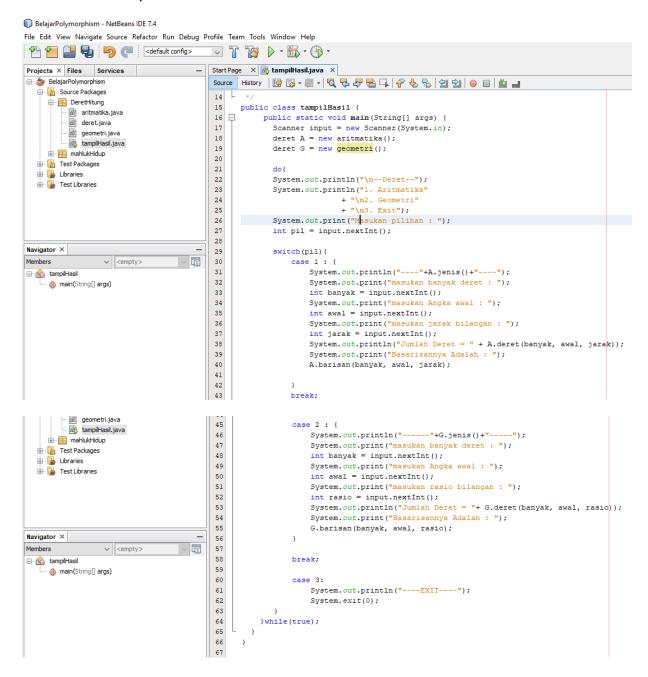
0.....



c. Class geometri

BelajarPolymorphism - NetBeans IDE 7.4 File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help The second secon 🔽 🎖 🦉 🕽 - 🖫 - 🕦 -Projects × Files Start Page X geometri.java X tampilHasil.java X Services ⊟... SelajarPolymorphism Source History | 🚱 🖫 🔻 🔻 - | 💆 🐶 🖶 🖫 | 🖓 😓 🗟 | 💇 💇 | 🥚 🔲 | 🕮 🚅 DeretHitung package DeretHitung; · 🚳 aritmatika.java deret.java 9 import static java.lang.Math.pow; geometri.java 10 tampilHasil.java 11 🗦 /** mahlukHidup 12 ⊕ 🍒 Test Packages 13 * @author Lale Akifa i Libraries 14 🗓 🔓 Test Libraries 15 public class geometri extends deret{ 16 @Override □ public String jenis(){ 18 return "Geometri"; 19 20 @Override Navigator × 0 public int deret(int banyak, int awal, int rasio){ int deret = (int) (awal * ((1-pow (rasio,banyak))/(1-rasio))); 22 Members 23 return deret; 24 ··· 🌖 barisan(int banyak, int awal, int rasio) @Override 25 oderet(int banyak, int awal, int rasio): int 0 public void barisan(int banyak, int awal, int rasio) { jenis(): String 27 for(int a=1; a<= banyak; a++) {</pre> int awall = (int) (awal * pow (rasio, a-l)); 28 System.out.print(awall + " "); 29 30 31 32 } 33

d. Class tampilHasil



Hasil:

```
Output - BelajarPolymorphism (run) #4

--Deret--

1. Aritmatika
2. Geometri
3. Exit

Masukan pilihan : 1
----aritmatika---
masukan banyak deret : 5
masukan Angka awal : 2
masukan jarak bilangan : 5

Jumlah Deret = 72

Basarisannya Adalah : 5 10 15 20 25
```

3. DataPenggajian

- a. Class ID
- b. Class Pegawai
- c. Class Gaji
- d. Class JumlahGaji
- e. Class tampiHasil

a. Class id

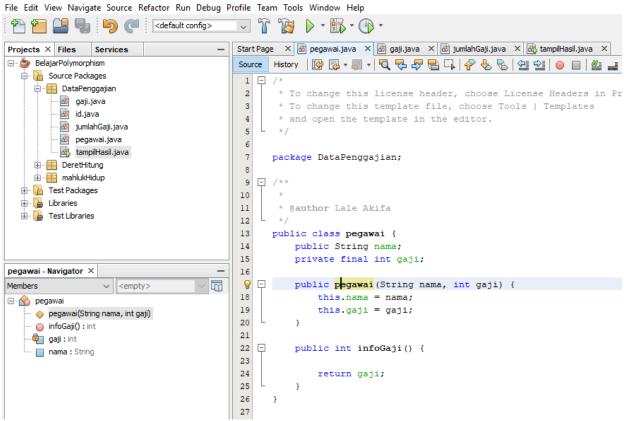
```
BelajarPolymorphism - NetBeans IDE 7.4
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                                                                                                                              Start Page X 🔞 id. java X 🚳 pegawai. java X 🔞 gaji. java X 🚳 jumlah Gaji. java X 🚳 tampil Hasil. java X
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  Source History | 🕝 🔯 + 👼 + | 🔩 🖓 🐶 🖶 📮 | 🚱 😓 | 🛂 💇 | 🍥 🔲 | 🐠 🚅
        □ BataPenggajian
                                                                                                                                                 package DataPenggajian;
                              🚳 gaji.java
                              id.java
                                                                                                                                9 🖃 /**
                            · 🔯 jumlahGaji.java
                                                                                                                               10
                             pegawai.java
                                                                                                                                                    * @author Lale Akifa
                                                                                                                               11
                             tampilHasil.java
                                                                                                                               12
               ⊕ BeretHitung
                                                                                                                                               public class id {
               i... ∰ mahlukHidup
                                                                                                                               14
                                                                                                                                                         public String nama = "Denny";
        private int nip = 1500631011;
        i Libraries
                                                                                                                                                            public String jabatan = "Kepala Sekolah";
                                                                                                                               16
        ⊕ Test Libraries
                                                                                                                               17
                                                                                                                               18 🖃
                                                                                                                                                             public void nama(){
                                                                                                                                                                        System.out.println("Nama : "+nama);
                                                                                                                                19
                                                                                                                               20
 Navigator ×
                                                                                                                               21
                                                                                                         ~ E
                                                                                                                               22 📮
                                                                                                                                                             public void nip(){
  Members

√ | <empty>

                                                                                                                               23
                                                                                                                                                                         System.out.println("Nip : "+nip);
  ··· 🌖 jabatan()
                                                                                                                               24
                                                                                                                               25
                onama()
                                                                                                                               26
                                                                                                                                                             public void jabatan(){
                onip()
                                                                                                                               27
                                                                                                                                                                         System.out.println("Jabatan: "+jabatan);
           --- 📕 jabatan : String
                                                                                                                               28
             mama: String
                                                                                                                               29
             …<mark>∰ nip∶i</mark>nt
```

b. Class Pegawai

BelajarPolymorphism - NetBeans IDE 7.4



c. Class Gaji

🕡 BelajarPolymorphism - NetBeans IDE 7.4

```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
                                            🚰 🚰 🖣 🦃 (default config>
                                            Start Page X 🗃 gaji.java X 🗃 jumlahGaji.java X 🚳 tampilHasil.java X
Projects X Files Services
⊟... SelajarPolymorphism
                                            Source History | 🚱 🐶 🚚 + | 🔾 🗫 🐶 🖶 📮 | 🍄 😓 | 😉 🕏
  package DataPenggajian;
     .... 🚳 gaji.java
                                             9 🖃 /**
         ··· 🚳 id.java
                                             10
         ···· 💰 jumlahGaji.java
                                                   * @author Lale Akifa
                                            11
         ... 💰 pegawai.java
                                            12
        tampilHasil.java
                                                 public class gaji extends id{
    ⊕... E DeretHitung
                                            14
                                                       int g_pokok, t, t1, t2, t3;
    ⊞ mahlukHidup
                                            15
  🗓 🚡 Test Packages
                                            16 🖃
                                                       public void g pokok(int gp) {
  ibraries
                                            17
                                                           this.g_pokok = gp;
  🗓 🔓 Test Libraries
                                            18
                                             19
                                            20 📮
                                                       public int gGP() {
                                             21
                                                        return g_pokok;
gT3 - Navigator X
                                             22
                                             23
Members

√ | <empty>

                                       m
                                             24 =
                                                       public void t (int tj) {
25
                                                         this.t = tj;
    ... | gGP():int
                                             26
    .. () gT():int
                                             27
    ... 🔘 gT1() : int
                                             28
                                                       public int gT() {
    ... (a) gT2(): int
                                            29
                                                           return t;
    ... ( gT3() : int
                                            30
    ··· 🔵 g_pokok(int gp)
                                             31
    - (int tj)
                                             32 📮
                                                       public void t1(int tjl){
    ·· 🄘 t1(int tj1)
                                            33
                                                          this.tl = tjl;
    ... (int tj2)
                                             34

 6 t3(int tj3)

                                             35
    ... 🖶 g_pokok : int
                                            36 🖃
                                                       public int gT1() {
    -- t:int
                                             37
                                                          return tl;
 38
                                             39
                                              40 🖃
                                                        public void t2(int tj2){
                                             41
                                                            this.t2 = tj2;
                                             42
gT3 - Navigator X
                                             43
Members
                                             44
                                                        public int gT2(){
                   ✓ | <empty>
                                        TO O
                                             45
                                                            return t2;
46
    ··· 🔘 gGP():int
                                             47
    --- 🌀 gT() : int
                                             48 🖃
                                                        public void t3(int tj3){
   — (a) gT1():int
                                             49
                                                           this.t3 = tj3;
   --- 🌀 gT2() : int
                                             50
    --- () gT3(): int
                                             51
    ··· 🔘 g_pokok(int gp)
                                             52 --
                                                        public int gT3(){
    ··· 🄘 t(int tj)
                                             53
                                                           return t3:
    ··· 🄘 t1(int tj1)
                                             54
    .... 🔘 t2(int tj2)
                                             55
    ··· 🌖 t3(int tj3)
```

d. jumlahGaji

```
BelajarPolymorphism - NetBeans IDE 7.4
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                                                                                                                                                                                                                                                                                                                                                                              Q.▼ Se
   × Files Servi... — Start Page × @ jumlahGaji.java × @ tampilHasil.java ×

□ ... 

BelaiarPolymorphism

BelaiarPolymorphi
                                                                ☐ ☐ Source Packages
              DataPenggajian
                                                                               package DataPenggajian;
                         gaji.java
                         id.java
                                                                  9 🖵 /**
                          jumlahGaji.java
                                                                10
                         pegawai,iava
                                                                                * @author Lale Akifa
                         tampilHasil.java
              DeretHitung
                                                                             public class jumlahGaji extends gaji{
              mahlukHidup
                                                                 14
                                                                                        double all;
       ⊕ 🌇 Test Packages
       ⊕ 🚡 Libraries
                                                                16 🗆
                                                                                        public void gaji() {
       jumlahGaji jumlahgaji = new jumlahGaji();
                                                                                                    jumlahgaji.g_pokok(1800000);
                                                                 19
                                                                                                   jumlahgaji.t(400000);
                                                                                                   jumlahgaji.tl(300000);
                                                                21
                                                                                                   jumlahgaji.t2(200000);
 gaji - Navigator ×
                                                                                                  jumlahgaji.t3(100000);
                                                                22
  ⊟-- 🏠 jumlahGaji :: gaji
                                                                                                  System.out.println("Gaji Pokok \t : Rp. "+jumlahgaji.gGP() +",-");
         all(): double
                                                                                                  System.out.println("Gaji Tunjangan 1 \t : Rp. "+jumlahgaji.gTl() +",-");
System.out.println("Gaji Tunjangan 2 \t : Rp. "+jumlahgaji.gT2() +",-");
         gaji()
all: double
                                                                27
                                                                                                    System.out.println("Gaji Tunjangan 3 \t : Rp. "+jumlahgaji.gT3() +",-");
                                                                                                   System.out.println("Gaji Tunjangan 4 \t : Rp. "+jumlahgaji.gT() +",-");
                                                                 28
                                                                 30
                                                                                                   all = (double) jumlahgaji.gGP() + jumlahgaji.gTl() + jumlahgaji.gT2() + jumlahgaji.gT3() + jumlahgaji.gT();
                                                                 31
                                                                 33 🗔
                                                                                        public double all() {
                                                                 34
                                                                                                 return all;
                                                                              }
```

e. Class tampilHasil

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```
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☐ BelajarPolymorphism

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 □ ■ DataPenggajian
                        7
                            package DataPenggajian;
        · 🚳 gaji.java
                        8
        id.iava
                       9
                          - /**
       ···· 🚳 jumlahGaji.java
                       10
       pegawai.java
                       11
                             * @author Lale Akifa
       tampilHasil.java
                       12
   public class tampilHasil extends jumlahGaji{
                       13
    ⊞ mahlukHidup
                       14
                                 public static void main(String[] args) {
 ⊕ Packages Test Packages
                       15
                                    tampilHasil th = new tampilHasil();
 🗓 🍃 Libraries
                       16
                                    System.out.println(" Gaji Dan Tunjangan Guru");
 ⊕ B Test Libraries
                       17
                                    System.out.println("-----
                       18
                                    th.nip();
                       19
                                    th.nama():
                       20
                                    th.jabatan();
main - Navigator X
                       21
                                    th.gT();
Members v <e... v
                       22
                                    th.gaji();
                       23
                                    System.out.println("-----
System.out.println("Total Gaji Poko + Tunjangan : Rp. "+th.all()+",-");
                       8
   main(String[] args)
                       25
                       26
                       27
                            }
                       28
```

Hasil: