LAPORAN PRAKTIKUM
MODUL 8
POLYMORPHISM
PRAKTIKUM PEMROGRAMAN BERORIENTASI OBJEK

Senopati Bekti W
L200190143
Praktikum PBO D

INFORMATIKA

FAKULTAS KOMUNIKASI DAN INFORMATIKA

UNIVERSITAS MUHAMMADIYAH SURAKARTA

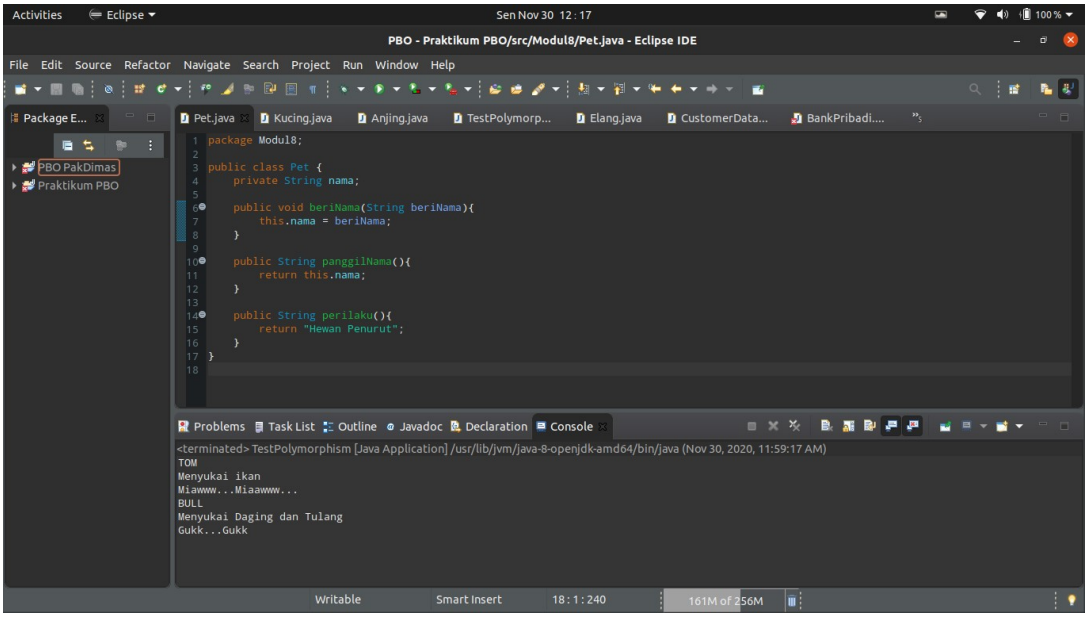
2020

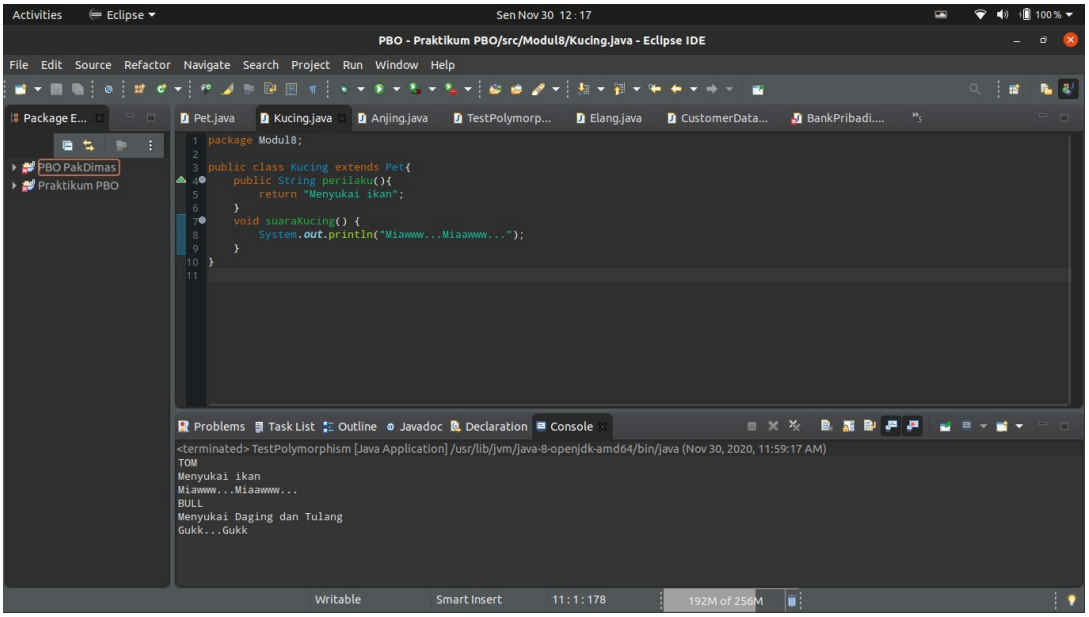
Latihan Praktikum :

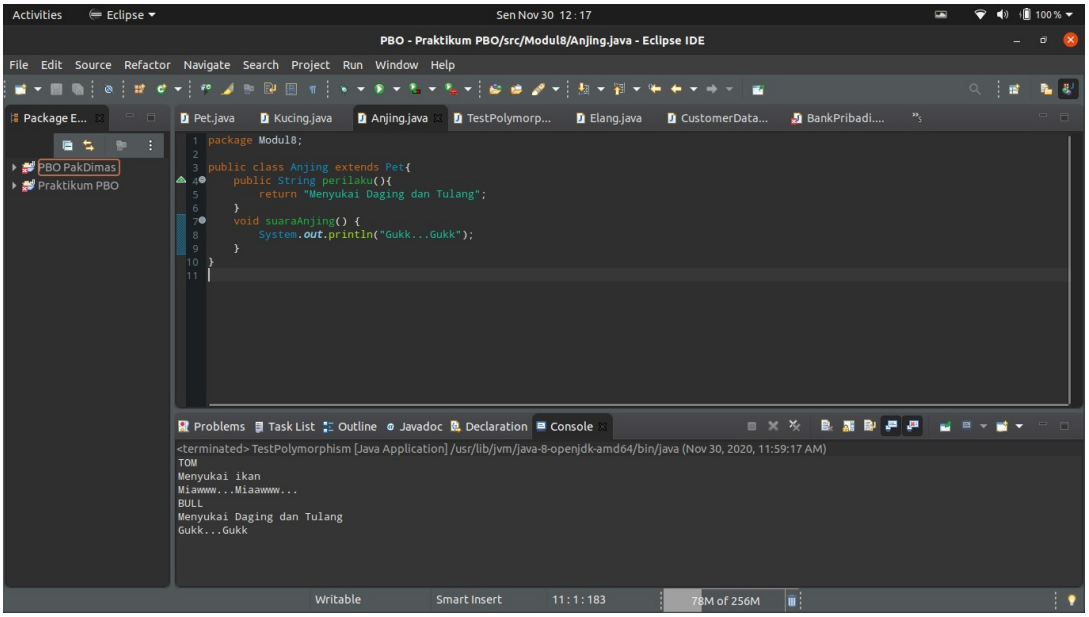
1. Buatlah class kucing dan Anjing dimana kedua class tersebut melakukan overriding terhadap method perilaku()!

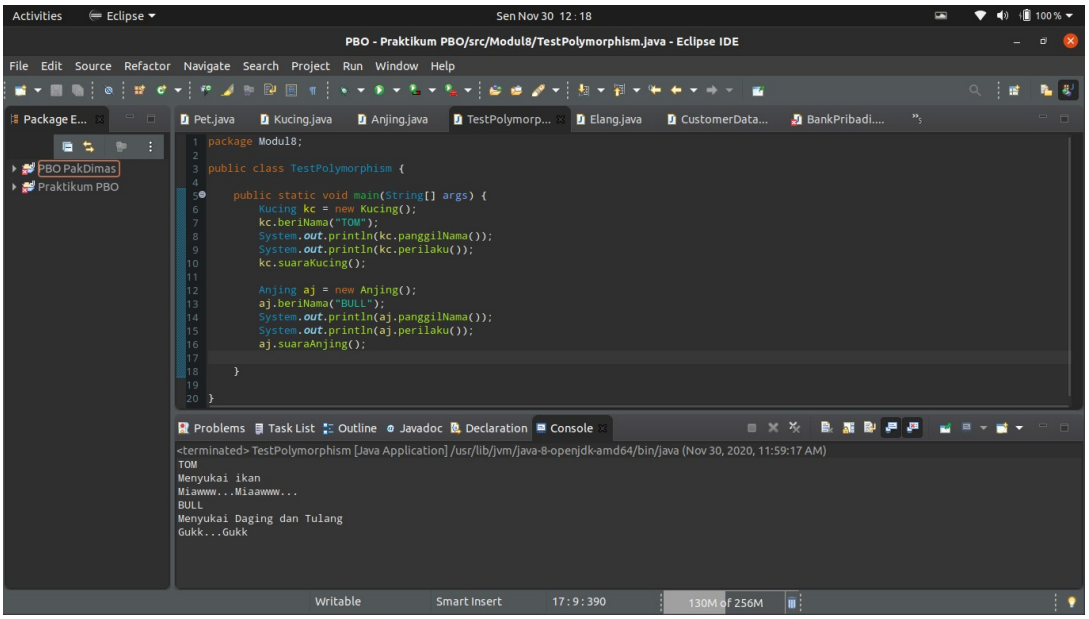
2.Tambahkan satu method pada masing-masing class yang secara khusus hanya berlaku pada masing-masing class tersebut.

3.Buat class TestPolymorphism sehingga keluaran programseperti berikut ini!





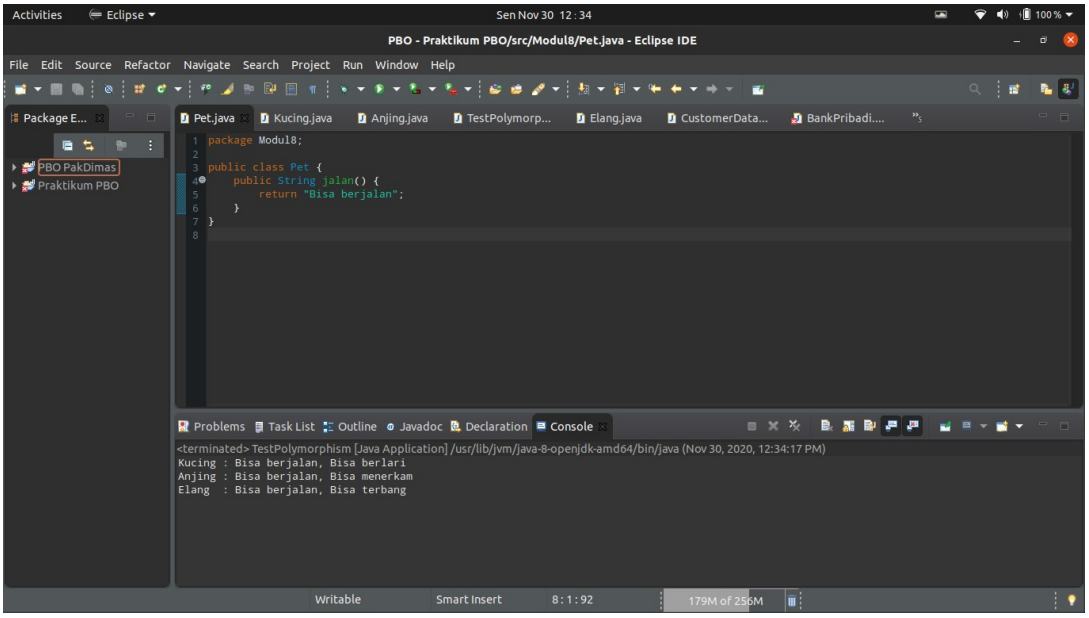

Activities
Eclipse
Sen Nov 30 12 : 17
PBO - Praktikum PBO/src/Modul8/Anjing.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package E...
PBO PakDimas
Praktikum PBO
Pet.java
Kucing.java
Anjing.java
TestPolymorp...
Elang.java
CustomerData...
BankPribadi....
package Modul8;
public class Anjing extends Pet{
public String perilaku(){
return "Menyukai Daging dan Tulang";
}
void suaraAnjing() {
System.out.println("Gukk...Gukk");
}
}
Problems
Task List
Outline
Javadoc
Declaration
Console
<terminated> TestPolymorphism [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Nov 30, 2020, 11:59:17 AM)
TOM
Menyukai ikan
Miawww...Miaawww...
BULL
Menyukai Daging dan Tulang
Gukk...Gukk
Writable
Smart Insert
11 : 1 : 183
78M of 256M

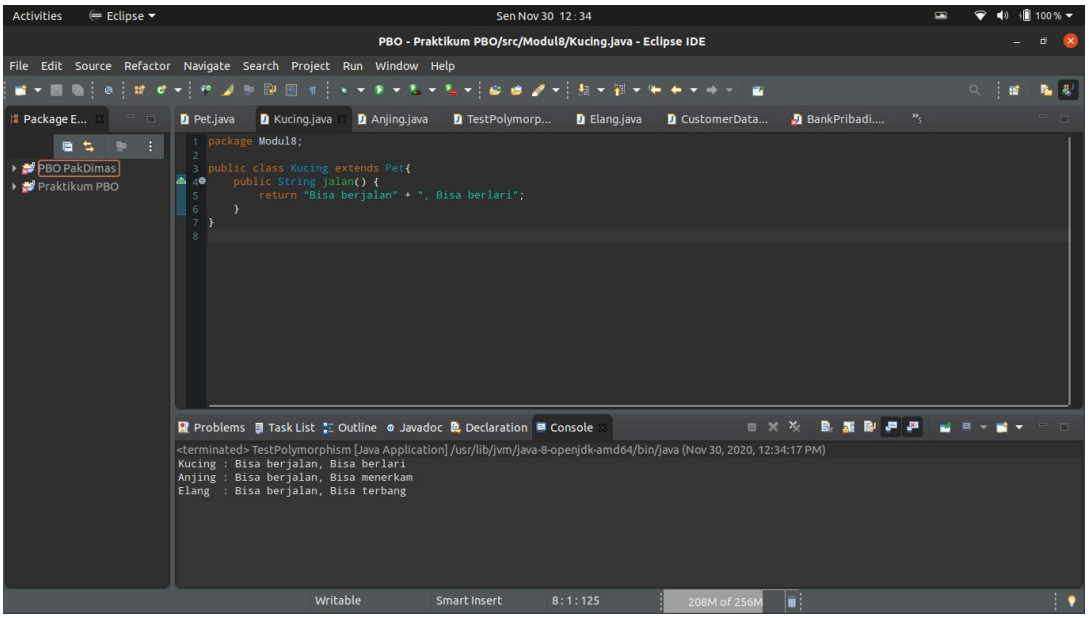

Activities
Eclipse
Sen Nov 30 12 : 18
PBO - Praktikum PBO/src/Modul8/TestPolymorphism.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package E...
PBO PakDimas
Praktikum PBO
Pet.java
Kucing.java
Anjing.java
TestPolymorp...
Elang.java
CustomerData...
BankPribadi....
package Modul8;
public class TestPolymorphism {
public static void main(String[] args) {
Kucing kc = new Kucing();
kc.beriNama("TOM");
System.out.println(kc.panggilNama());
System.out.println(kc.perilaku());
kc.suaraKucing();
Anjing aj = new Anjing();
aj.beriNama("BULL");
System.out.println(aj.panggilNama());
System.out.println(aj.perilaku());
aj.suaraAnjing();
}
}
Problems
Task List
Outline
Javadoc
Declaration
Console
<terminated> TestPolymorphism [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Nov 30, 2020, 11:59:17 AM)
TOM
Menyukai ikan
Miawww...Miaawww...
BULL
Menyukai Daging dan Tulang
Gukk...Gukk
Writable
Smart Insert
17 : 9 : 390
130M of 256M

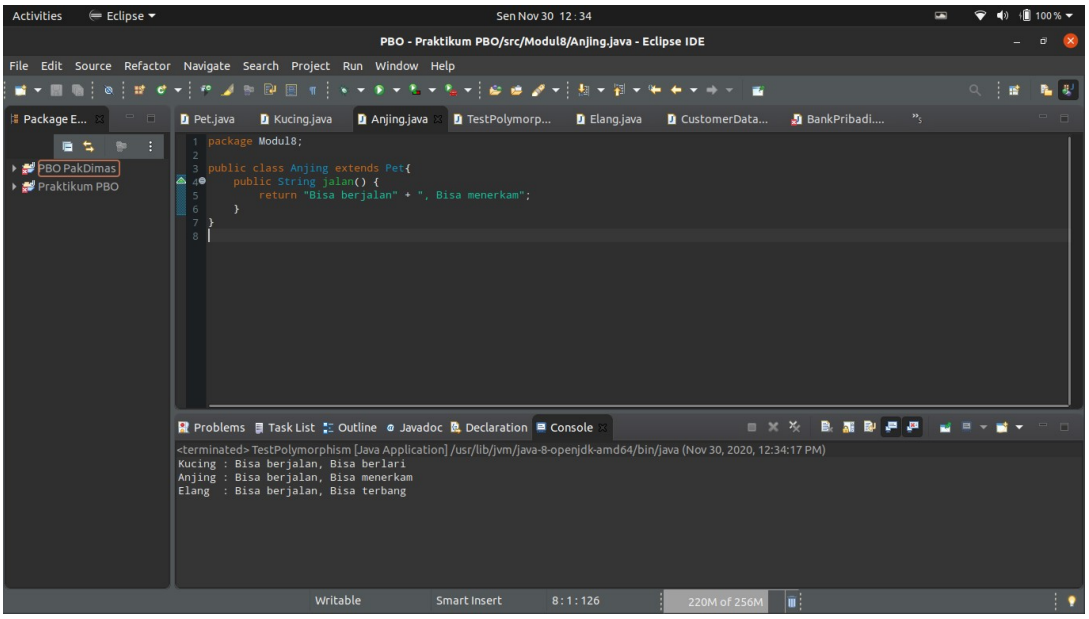
TUGAS PRAKTIKUM :

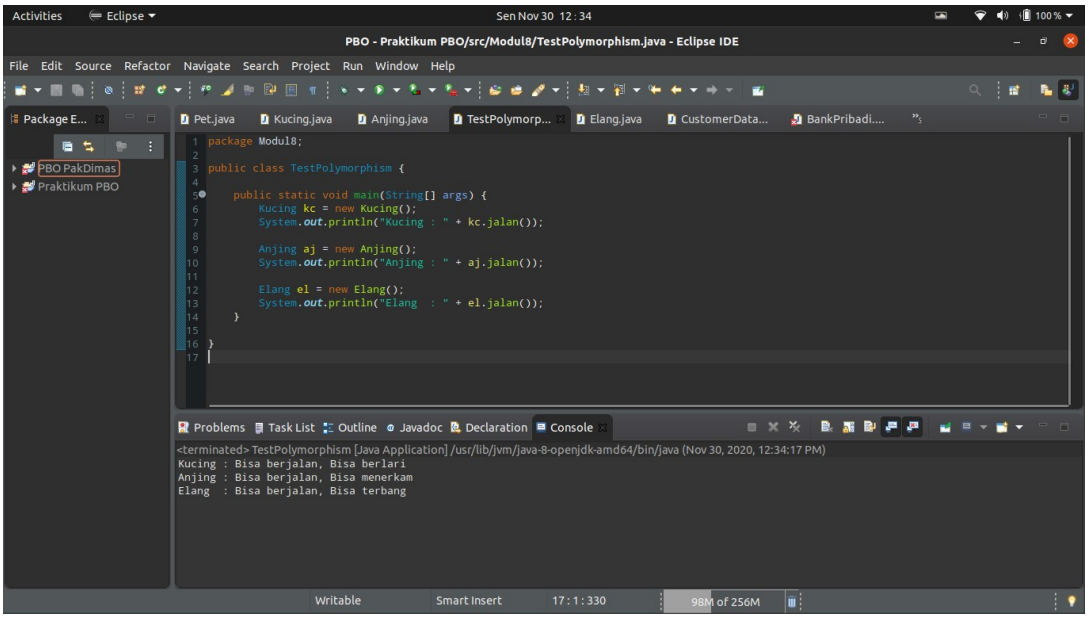
1.Lihat kembali Program 4 mengenai overriding, buatlah class Elang yang memiliki method jalan()

namun implementasinya berbeda dari kedua class lainnya!






Activities
Eclipse
Sen Nov 30 12 : 34
PBO - Praktikum PBO/src/Modul8/Anjing.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package E...
PBO PakDimas
Praktikum PBO
Pet.java
Kucing.java
Anjing.java
TestPolymorp...
Elang.java
CustomerData...
BankPribadi....
package Modul8;
public class Anjing extends Pet{
public String jalan() {
return "Bisa berjalan" + ", Bisa menerkam";
}
}
Problems
Task List
Outline
Javadoc
Declaration
Console
<terminated> TestPolymorphism [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Nov 30, 2020, 12:34:17 PM)
Kucing : Bisa berjalan, Bisa berlari
Anjing : Bisa berjalan, Bisa menerkam
Elang : Bisa berjalan, Bisa terbang
Writable
Smart Insert
8 : 1 : 126
220M of 256M

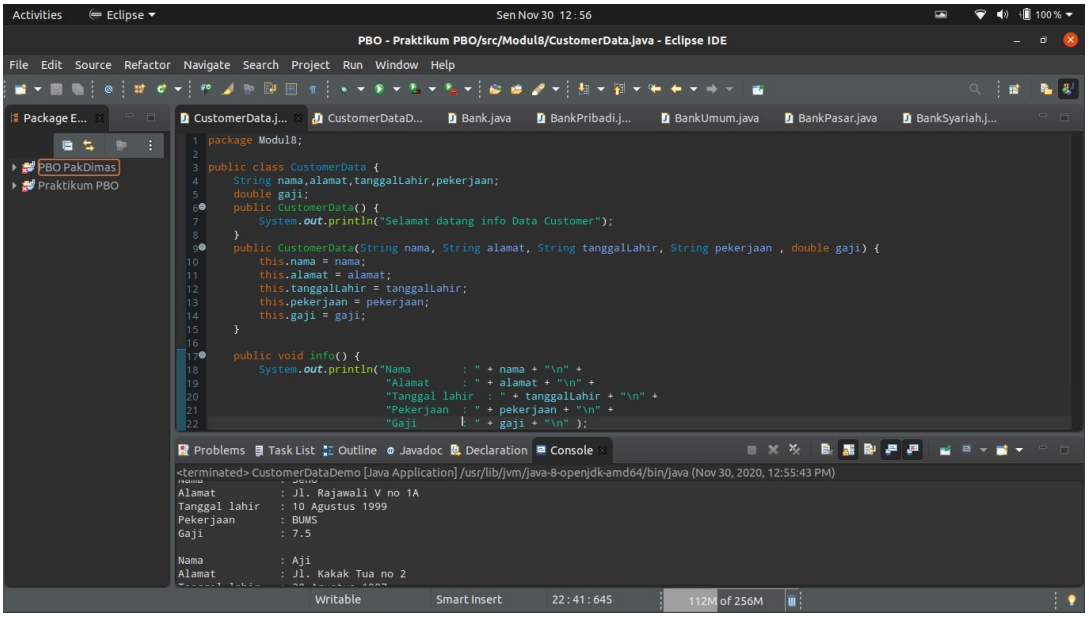

Activities
Eclipse
Sen Nov 30 12 : 34
PBO - Praktikum PBO/src/Modul8/TestPolymorphism.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package E...
PBO PakDimas
Praktikum PBO
Pet.java
Kucing.java
Anjing.java
TestPolymorp...
Elang.java
CustomerData...
BankPribadi....
package Modul8;
public class TestPolymorphism {
public static void main(String[] args) {
Kucing kc = new Kucing();
System.out.println("Kucing : " + kc.jalan());
Anjing aj = new Anjing();
System.out.println("Anjing : " + aj.jalan());
Elang el = new Elang();
System.out.println("Elang : " + el.jalan());
}
}
Problems
Task List
Outline
Javadoc
Declaration
Console
<terminated> TestPolymorphism [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Nov 30, 2020, 12:34:17 PM)
Kucing : Bisa berjalan, Bisa berlari
Anjing : Bisa berjalan, Bisa menerkam
Elang : Bisa berjalan, Bisa terbang
Writable
Smart Insert
17 : 1 : 330
98M of 256M

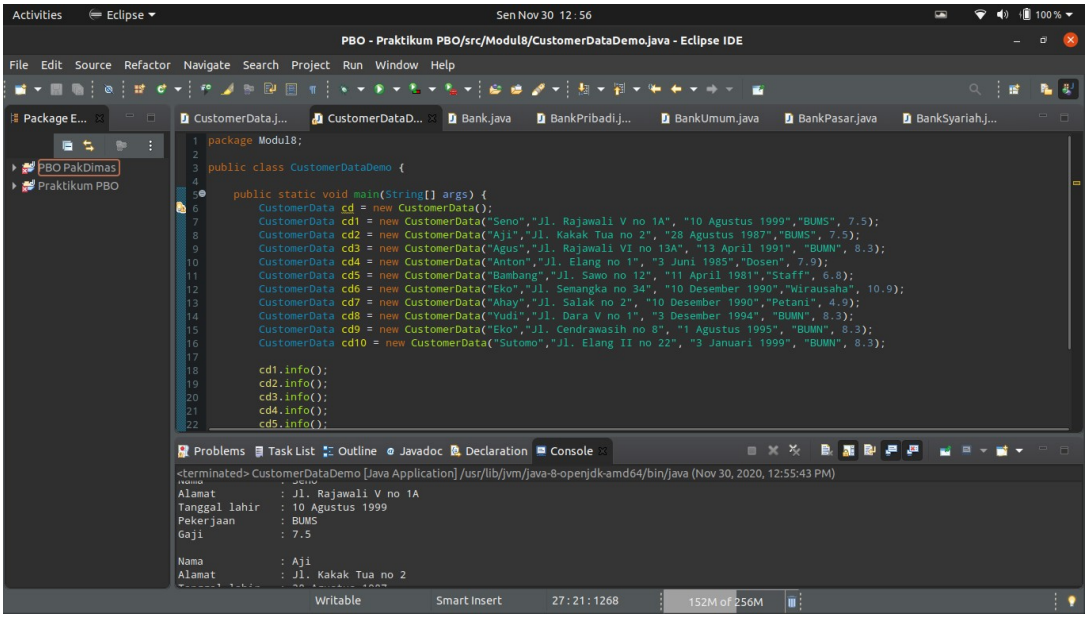
2.Buatlah class baru dengan nama CustomerData, tambahkan variabel nama, alamat, tanggal lahir,

pekerjaan dan gaji. Selanjutnya buatlah overloading constructor dari class tersebut.

3.Buatlah class baru dengan method main() yang disertai 10 object customer dari class

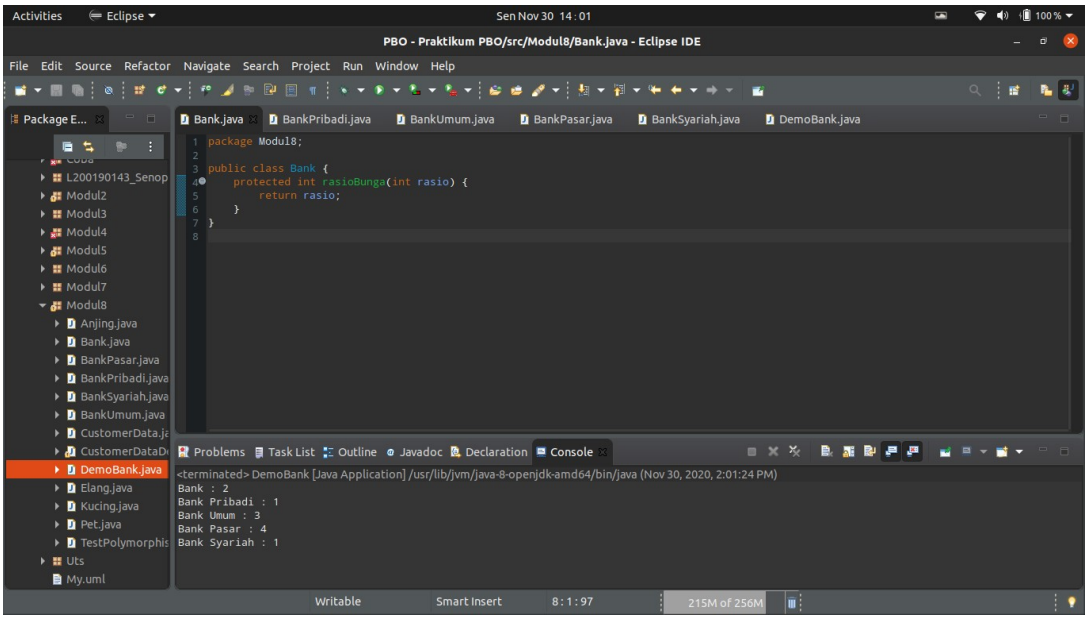
CustomerData

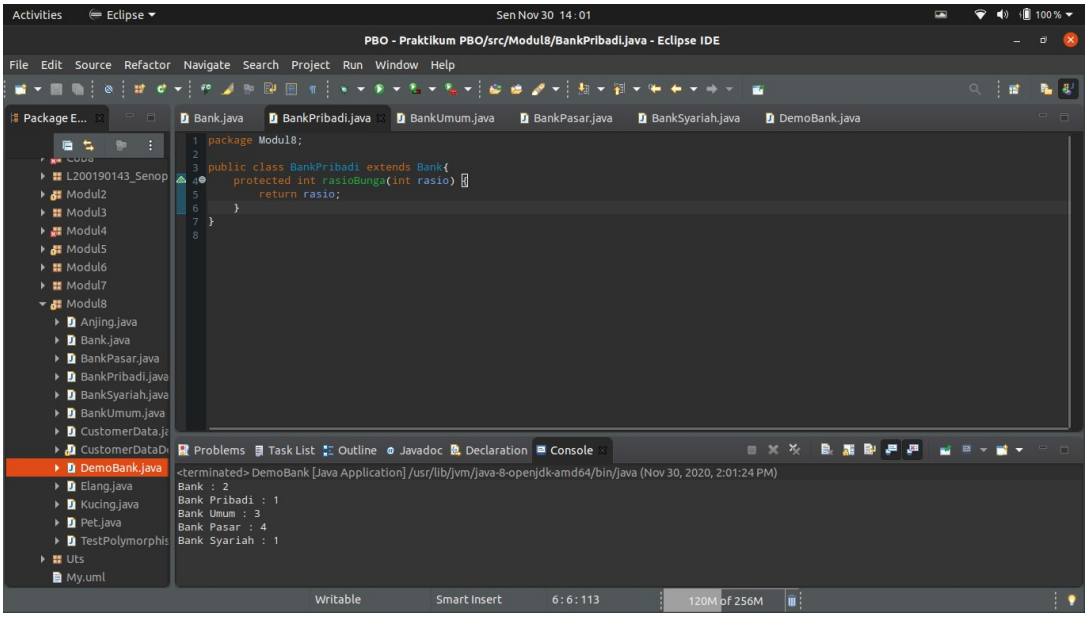


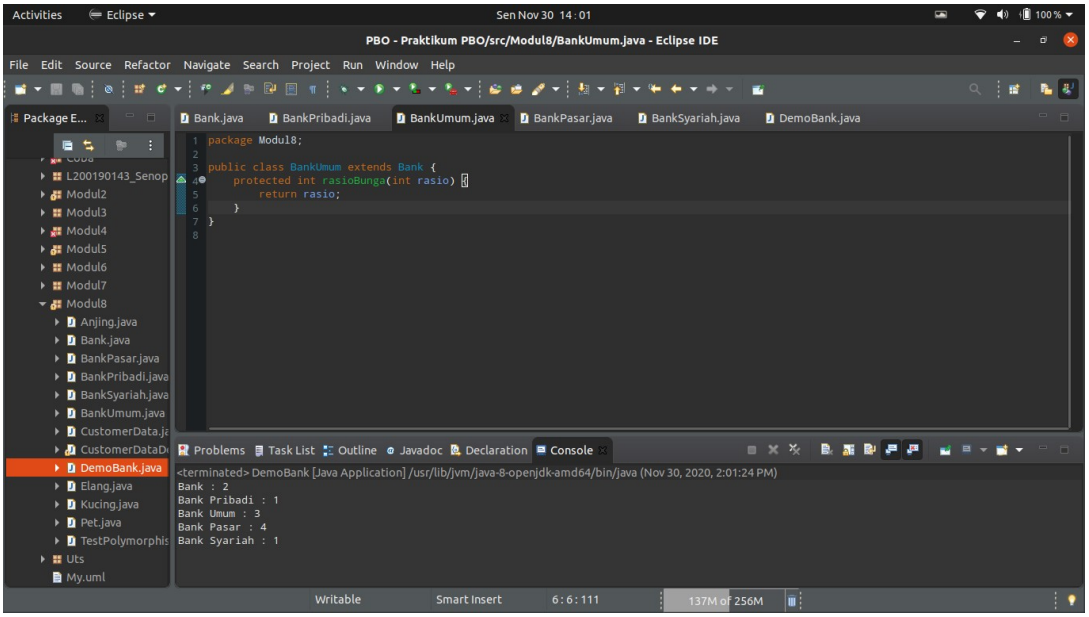


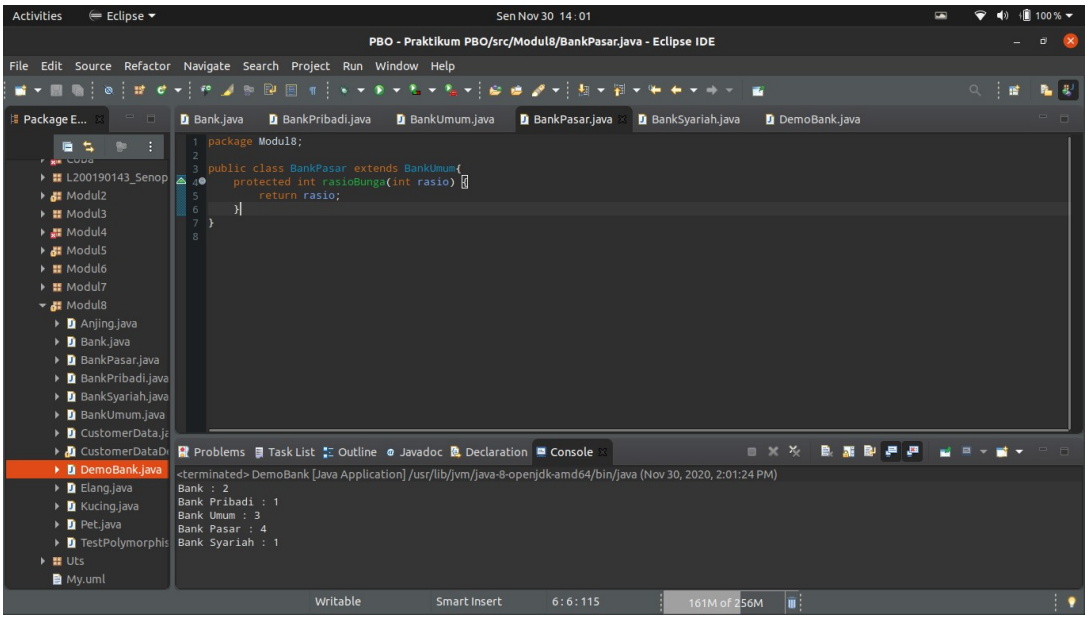
4. Buatlah class berdasarkan diagram UML berikut ini! Terapkan teknik polymorphism dan

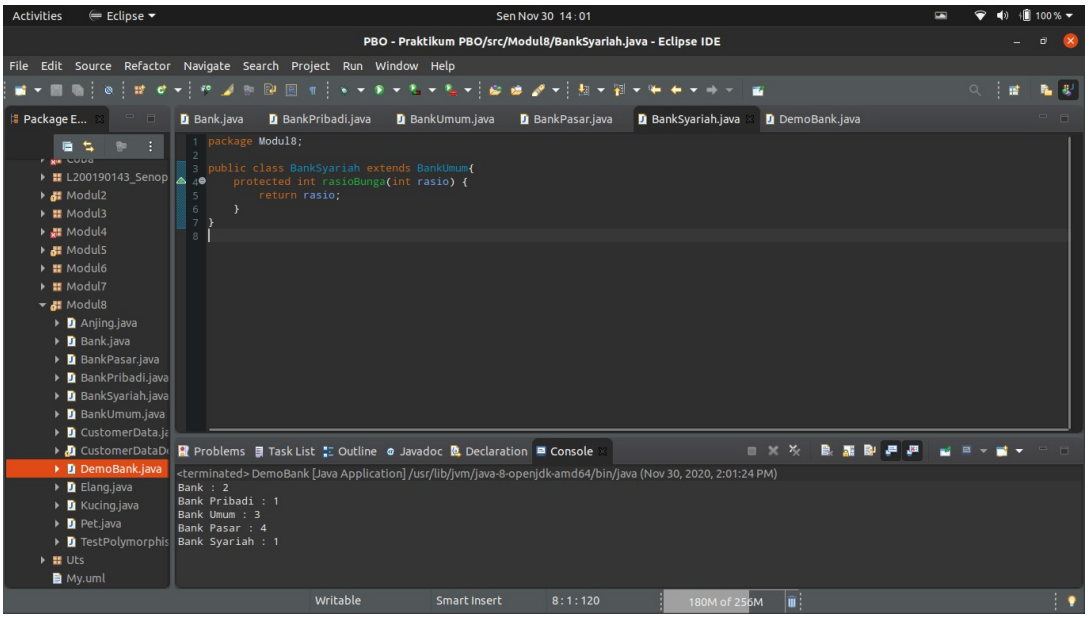
tampilkan hasil output program (screenshot)!

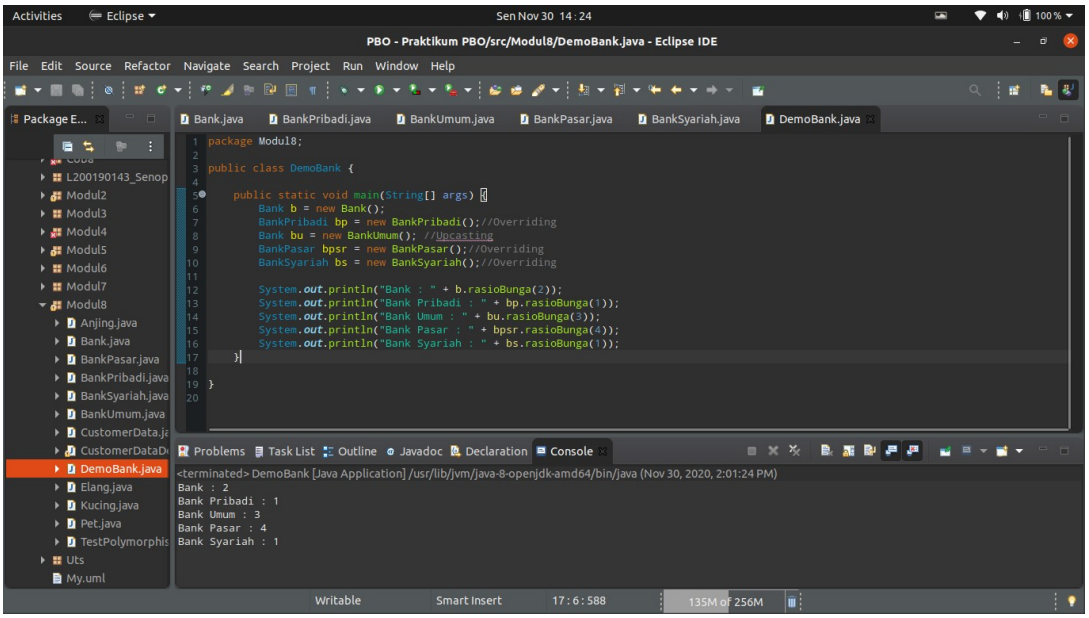





Activities
Eclipse
Sen Nov 30 14 : 01
PBO - Praktikum PBO/src/Modul8/BankUmum.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package E...
Bank.java
BankPribadi.java
BankUmum.java
BankPasar.java
BankSyariah.java
DemoBank.java
1 package Modul8;
2
3 public class BankUmum extends Bank {
4 protected int rasioBunga(int rasio) {
5 return rasio;
6 }
7 }
8
L200190143_Senop
Modul2
Modul3
Modul4
Modul5
Modul6
Modul7
Modul8
Anjing.java
Bank.java
BankPasar.java
BankPribadi.java
BankSyariah.java
BankUmum.java
CustomerData.ja
CustomerDataD
DemoBank.java
Elang.java
Kucing.java
Pet.java
TestPolymorphis
Uts
My.uml
Problems
Task List
Outline
Javadoc
Declaration
Console
<terminated> DemoBank [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Nov 30, 2020, 2:01:24 PM)
Bank : 2
Bank Pribadi : 1
Bank Umum : 3
Bank Pasar : 4
Bank Syariah : 1
Writable
Smart Insert
6 : 6 : 111
137M of 256M


Activities
Eclipse
Sen Nov 30 14 : 01
PBO - Praktikum PBO/src/Modul8/BankPasar.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package E...
Bank.java
BankPribadi.java
BankUmum.java
BankPasar.java
BankSyariah.java
DemoBank.java
1 package Modul8;
2
3 public class BankPasar extends BankUmum{
4 protected int rasioBunga(int rasio) {
5 return rasio;
6 }
7 }
8
L200190143_Senop
Modul2
Modul3
Modul4
Modul5
Modul6
Modul7
Modul8
Anjing.java
Bank.java
BankPasar.java
BankPribadi.java
BankSyariah.java
BankUmum.java
CustomerData.ja
CustomerDataD
DemoBank.java
Elang.java
Kucing.java
Pet.java
TestPolymorphis
Uts
My.uml
Problems
Task List
Outline
Javadoc
Declaration
Console
<terminated> DemoBank [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Nov 30, 2020, 2:01:24 PM)
Bank : 2
Bank Pribadi : 1
Bank Umum : 3
Bank Pasar : 4
Bank Syariah : 1
Writable
Smart Insert
6 : 6 : 115
161M of 256M


Activities
Eclipse
Sen Nov 30 14 : 01
PBO - Praktikum PBO/src/Modul8/BankSyariah.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package E...
Bank.java
BankPribadi.java
BankUmum.java
BankPasar.java
BankSyariah.java
DemoBank.java
1 package Modul8;
2
3 public class BankSyariah extends BankUmum{
4 protected int rasioBunga(int rasio) {
5 return rasio;
6 }
7 }
8
L200190143_Senop
Modul2
Modul3
Modul4
Modul5
Modul6
Modul7
Modul8
Anjing.java
Bank.java
BankPasar.java
BankPribadi.java
BankSyariah.java
BankUmum.java
CustomerData.ja
CustomerDataD
DemoBank.java
Elang.java
Kucing.java
Pet.java
TestPolymorphis
Uts
My.uml
Problems Task List Outline Javadoc Declaration Console
<terminated> DemoBank [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Nov 30, 2020, 2:01:24 PM)
Bank : 2
Bank Pribadi : 1
Bank Umum : 3
Bank Pasar : 4
Bank Syariah : 1
Writable
Smart Insert
8 : 1 : 120
180M of 256M


Activities
Eclipse
Sen Nov 30 14 : 24
PBO - Praktikum PBO/src/Modul8/DemoBank.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package E...
Bank.java
BankPribadi.java
BankUmum.java
BankPasar.java
BankSyariah.java
DemoBank.java
1 package Modul8;
2
3 public class DemoBank {
4
5 public static void main(String[] args) {
6 Bank b = new Bank();
7 BankPribadi bp = new BankPribadi();//Overriding
8 Bank bu = new BankUmum(); //Upcasting
9 BankPasar bpsr = new BankPasar();//Overriding
10 BankSyariah bs = new BankSyariah();//Overriding
11
12 System.out.println("Bank : " + b.rasioBunga(2));
13 System.out.println("Bank Pribadi : " + bp.rasioBunga(1));
14 System.out.println("Bank Umum : " + bu.rasioBunga(3));
15 System.out.println("Bank Pasar : " + bpsr.rasioBunga(4));
16 System.out.println("Bank Syariah : " + bs.rasioBunga(1));
17 }
18
19 }
20
L200190143_Senop
Modul2
Modul3
Modul4
Modul5
Modul6
Modul7
Modul8
Anjing.java
Bank.java
BankPasar.java
BankPribadi.java
BankSyariah.java
BankUmum.java
CustomerData.ja
CustomerDataD
DemoBank.java
Elang.java
Kucing.java
Pet.java
TestPolymorphis
Uts
My.uml
Problems Task List Outline Javadoc Declaration Console
<terminated> DemoBank [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Nov 30, 2020, 2:01:24 PM)
Bank : 2
Bank Pribadi : 1
Bank Umum : 3
Bank Pasar : 4
Bank Syariah : 1
Writable
Smart Insert
17 : 6 : 588
135M of 256M