LAPORAN PRAKTIKUM PEMROGRAMAN BERORIENTASI OBYEK

MODUL 9

ABSTRACT CLASS

Disusun Oleh :

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Kelas : D

Matkul : Praktikum PBO

PROGRAM STUDI TEKNIK INFORMATIKA

FAKULTAS KOMUNIKASI DAN INFORMATIKA

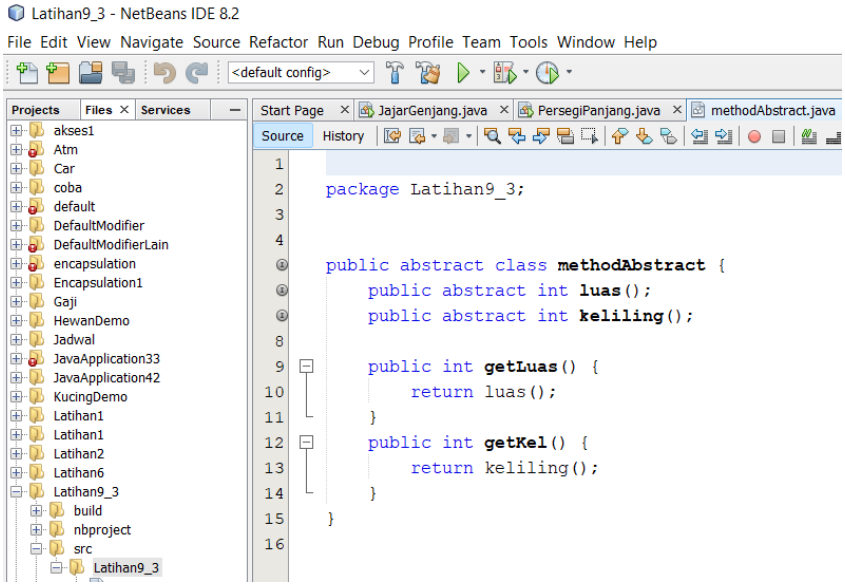
UNIVERSITAS MUHAMMADIYAH SURAKARTA

TAHUN 2021/2022

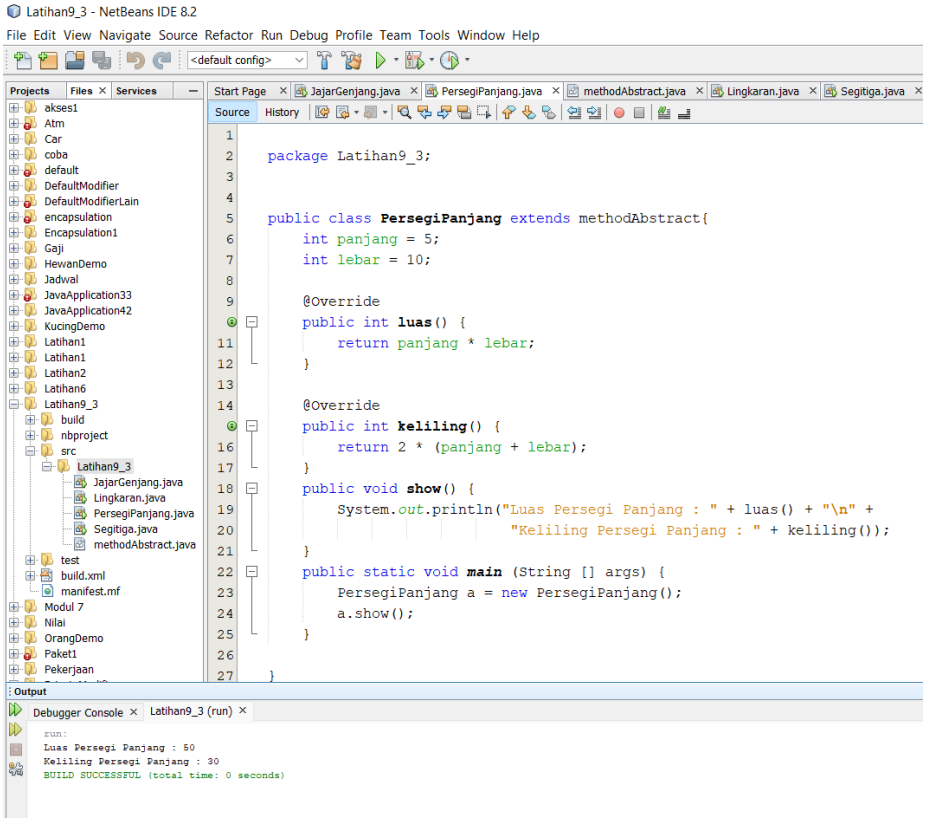
9.3 LATIHAN

Dengan menggunakan class MethodAbstract pada program 5 diatas, buatlah class PersegiPanjang, JajarGenjang, Lingkaran, dan Segitiga! Selanjutnya implementasikan method luas() dan keliling() yang sesuai dengan perhitungan masing – masing.

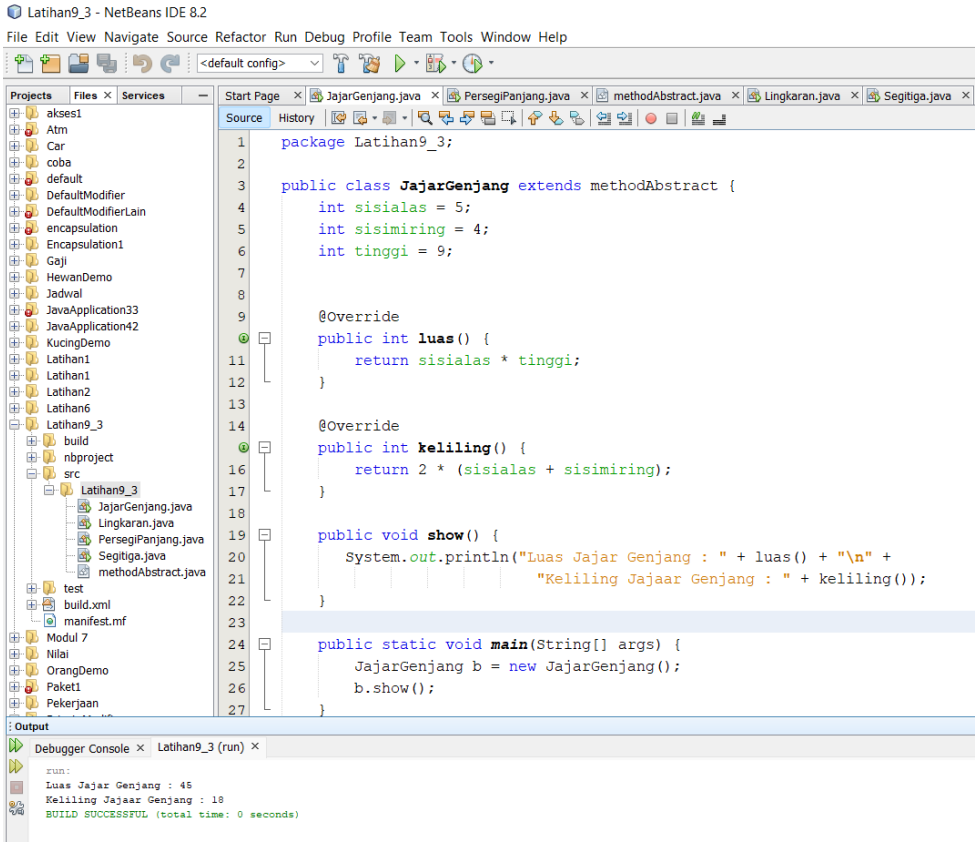
- **MethodAbstract**



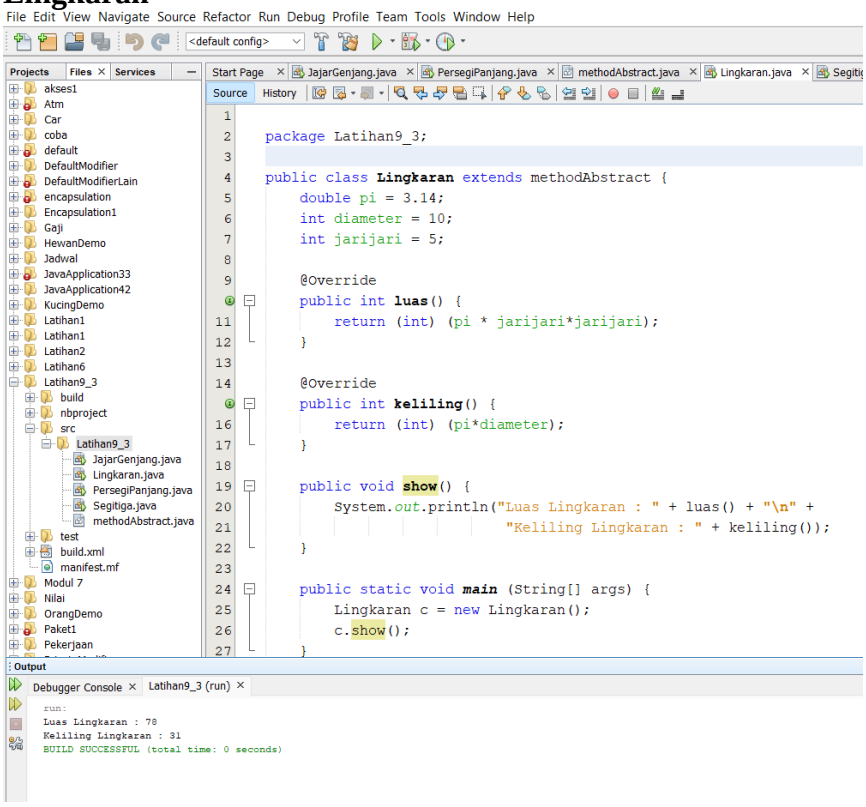
- **Persegi Panjang**



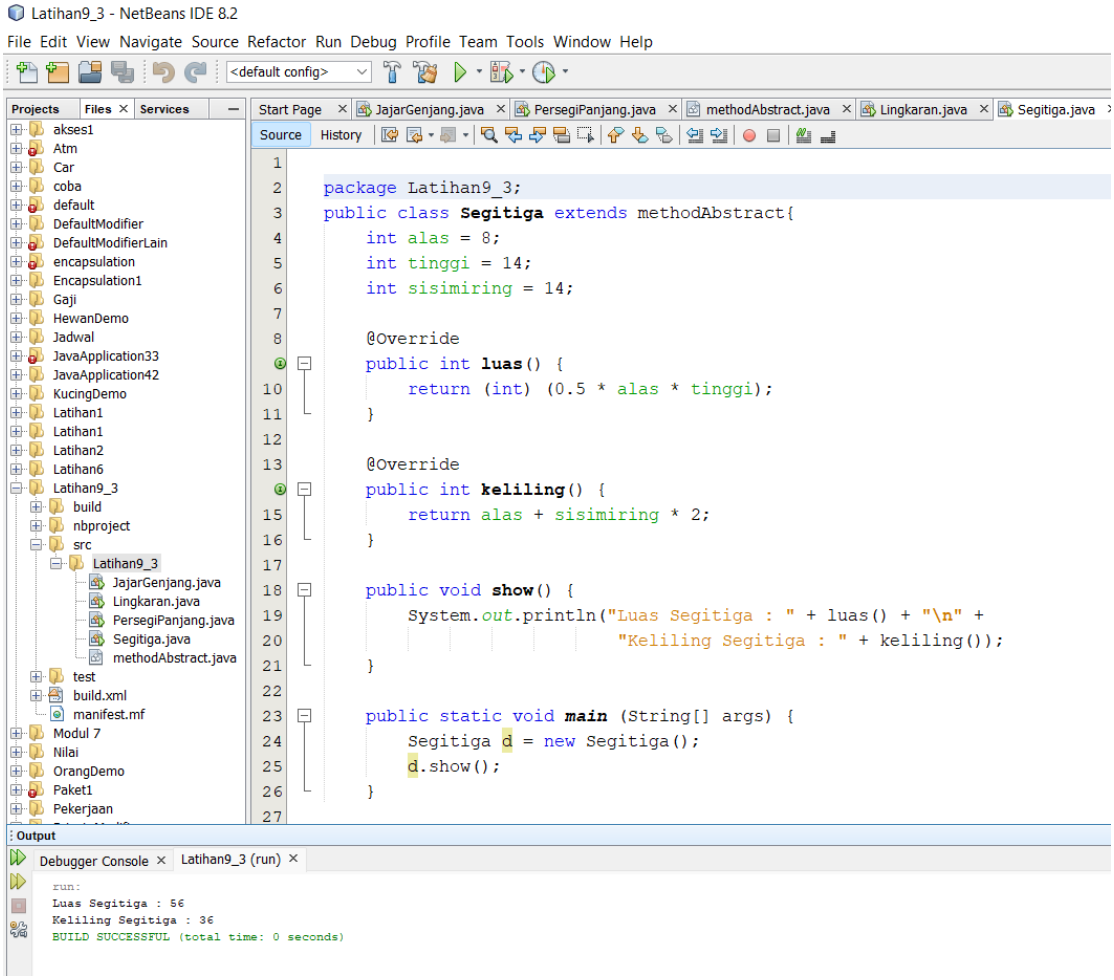
- **Jajar Genjang**



- **Lingkaran**



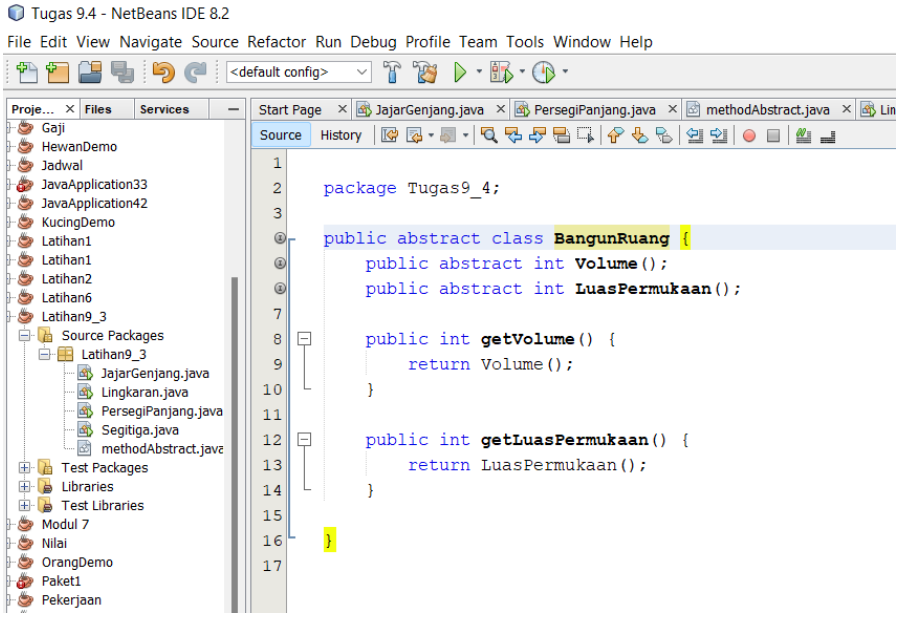
- **Segitiga**


Latihan9_3 - NetBeans IDE 8.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
<default config>
Projects Files Services
akses1
Atm
Car
coba
default
DefaultModifier
DefaultModifierLain
encapsulation
Encapsulation1
Gaji
HewanDemo
Jadwal
JavaApplication33
JavaApplication42
KucingDemo
Latihan1
Latihan1
Latihan2
Latihan6
Latihan9_3
build
nbproject
src
Latihan9_3
JajarGenjang.java
Lingkaran.java
PersegiPanjang.java
Segitiga.java
methodAbstract.java
test
build.xml
manifest.mf
Modul 7
Nilai
OrangDemo
Paket1
Pekerjaan
Start Page
JajarGenjang.java
PersegiPanjang.java
methodAbstract.java
Lingkaran.java
Segitiga.java
Source
History
1 package Latihan9_3;
2 public class Segitiga extends methodAbstract{
3 int alas = 8;
4 int tinggi = 14;
5 int sisimiring = 14;
6
7 @Override
8 public int luas() {
9 return (int) (0.5 * alas * tinggi);
10 }
11
12 @Override
13 public int keliling() {
14 return alas + sisimiring * 2;
15 }
16
17 public void show() {
18 System.out.println("Luas Segitiga : " + luas() + "\n" +
19 "Keliling Segitiga : " + keliling());
20 }
21
22 public static void main (String[] args) {
23 Segitiga d = new Segitiga();
24 d.show();
25 }
26
27
Output
Debugger Console
Latihan9_3 (run)
run:
Luas Segitiga : 56
Keliling Segitiga : 36
BUILD SUCCESSFUL (total time: 0 seconds)

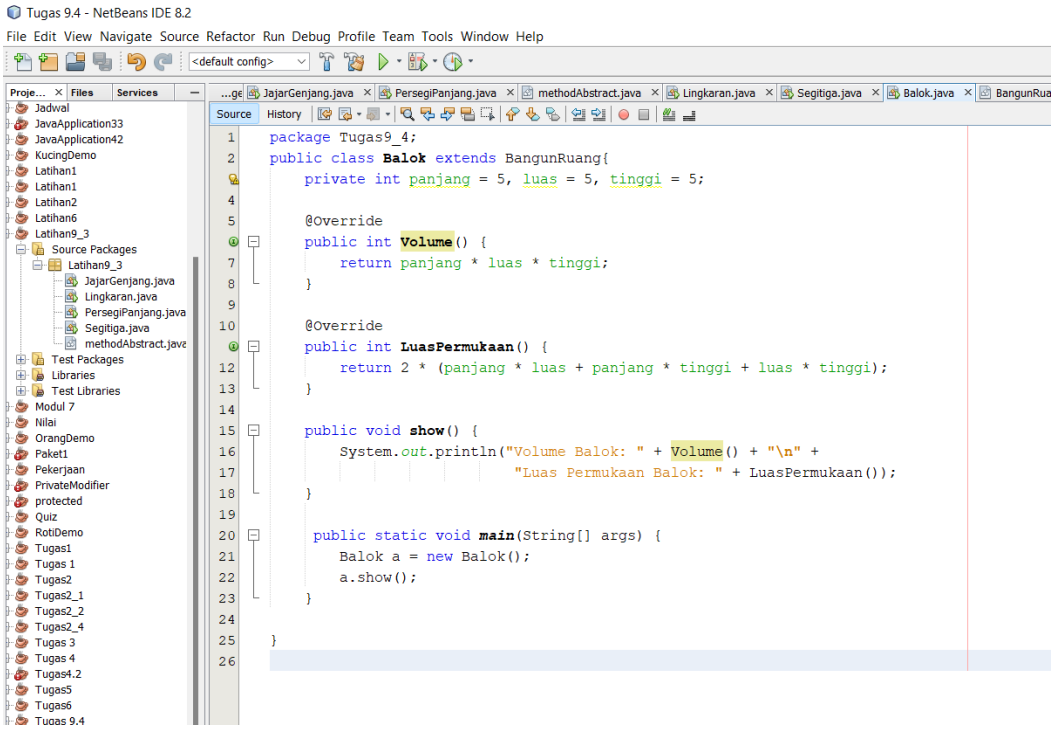
9.4 TUGAS

Buatlah class abstract untuk bangun ruang, dengan ketentuan memiliki method abstract untuk menghitung volume dan luas selimut/luas permukaan. Selanjutnya buatlah class Balok, Kubus, Bola, Kerucut, dan PrismaSegitiga untuk mengimplementasikan method abstract tersebut!

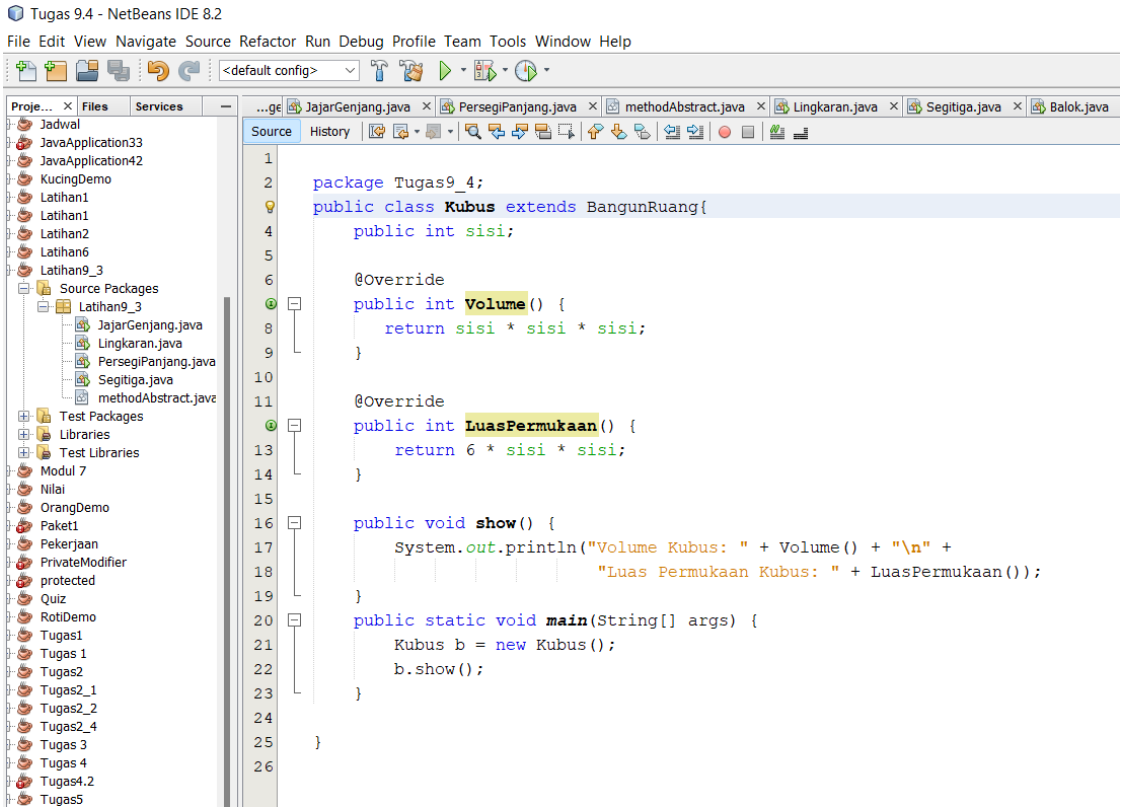
- Bangun Ruang



- Balok



- Kubus


Tugas 9.4 - NetBeans IDE 8.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
<default config>
Proje... Files Services
Jadwal
JavaApplication33
JavaApplication42
KucingDemo
Latihan1
Latihan1
Latihan2
Latihan6
Latihan9_3
Source Packages
Latihan9_3
JajarGenjang.java
Lingkaran.java
PersegiPanjang.java
Segitiga.java
methodAbstract.java
Test Packages
Libraries
Test Libraries
Modul 7
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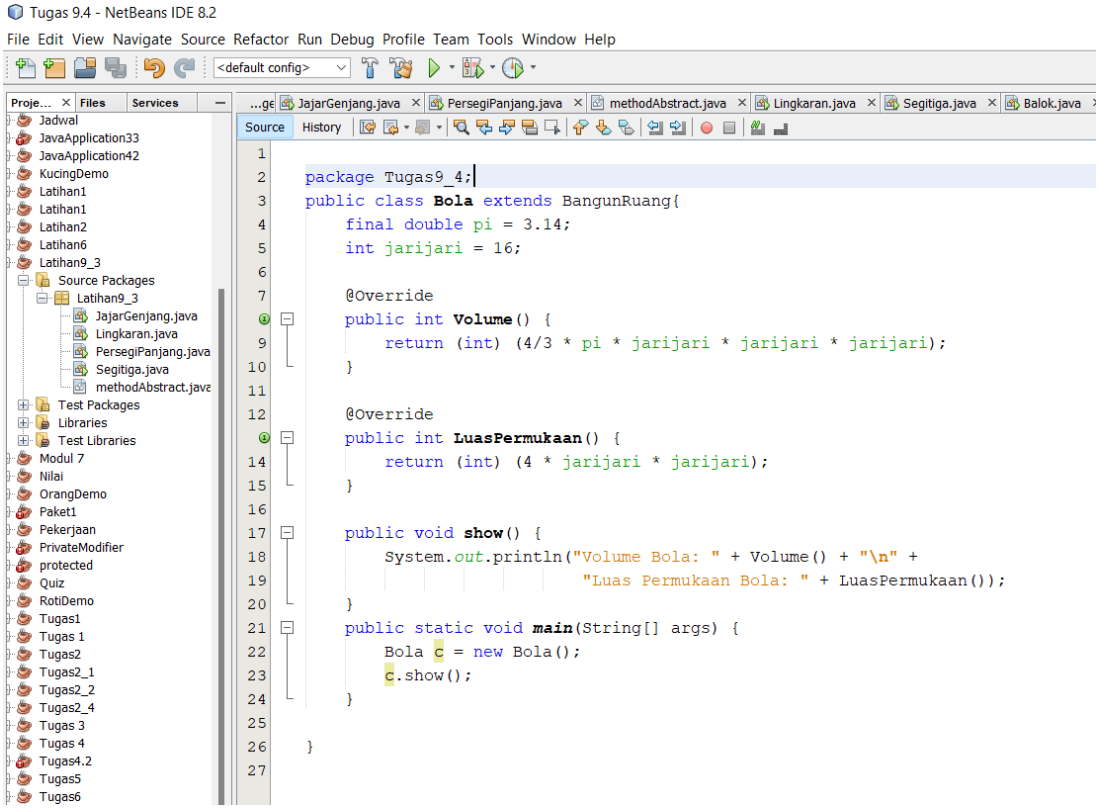
Pekerjaan
PrivateModifier
protected
Quiz
RotiDemo
Tugas1
Tugas 1
Tugas2
Tugas2_1
Tugas2_2
Tugas2_4
Tugas 3
Tugas 4
Tugas4.2
Tugas5
JajarGenjang.java
PersegiPanjang.java
methodAbstract.java
Lingkaran.java
Segitiga.java
Balok.java
Source
History
1 package Tugas9_4;
2 public class Kubus extends BangunRuang{
4 public int sisi;
5
6 @Override
7 public int Volume() {
8 return sisi * sisi * sisi;
9 }
10
11 @Override
12 public int LuasPermukaan() {
13 return 6 * sisi * sisi;
14 }
15
16 public void show() {
17 System.out.println("Volume Kubus: " + Volume() + "\n" +
18 "Luas Permukaan Kubus: " + LuasPermukaan());
19 }
20 public static void main(String[] args) {
21 Kubus b = new Kubus();
22 b.show();
23 }
24
25 }
26

- Bola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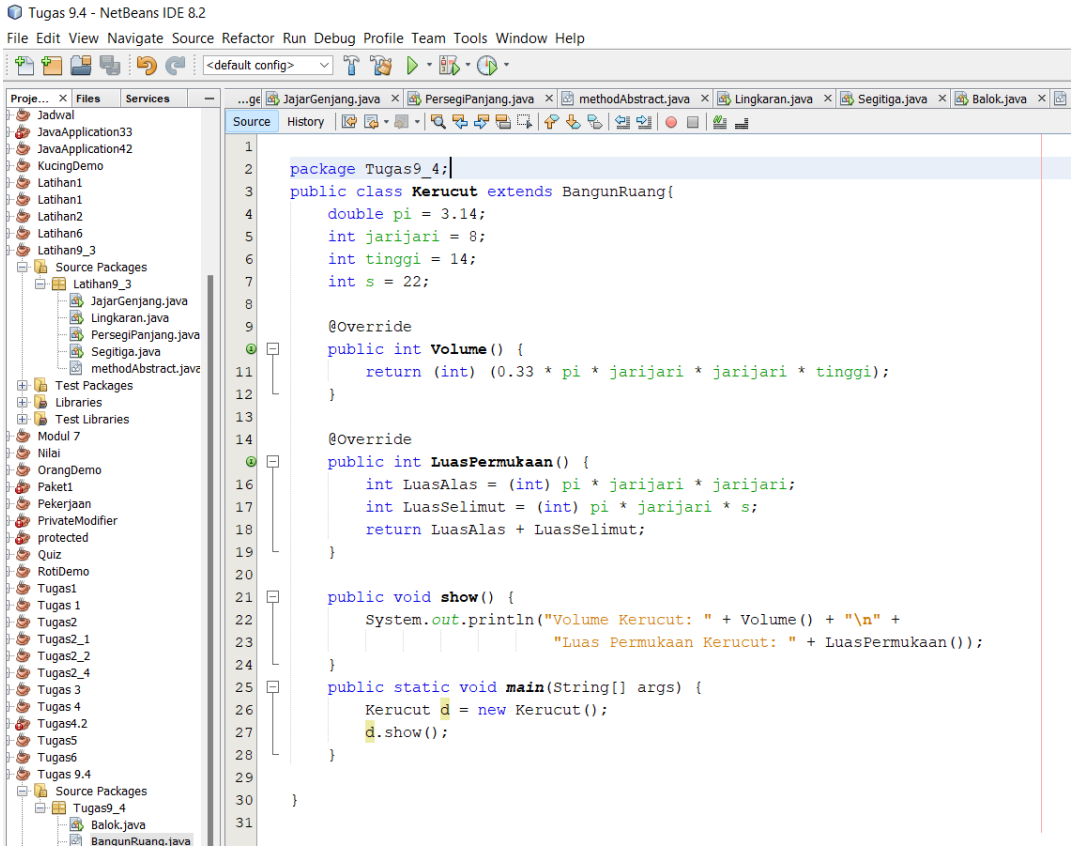
Tugas1
Tugas 1
Tugas2
Tugas2_1
Tugas2_2
Tugas2_4
Tugas 3
Tugas 4
Tugas4.2
Tugas5
Tugas6
JajarGenjang.java
PersegiPanjang.java
methodAbstract.java
Lingkaran.java
Segitiga.java
Balok.java
Source
History
1 package Tugas9_4;
2 public class Bola extends BangunRuang{
3 final double pi = 3.14;
4 int jarijari = 16;
5
6 @Override
7 public int Volume() {
8 return (int) (4/3 * pi * jarijari * jarijari * jarijari);
9 }
10
11 @Override
12 public int LuasPermukaan() {
13 return (int) (4 * jarijari * jarijari);
14 }
15
16 public void show() {
17 System.out.println("Volume Bola: " + Volume() + "\n" +
18 "Luas Permukaan Bola: " + LuasPermukaan());
19 }
20 public static void main(String[] args) {
21 Bola c = new Bola();
22 c.show();
23 }
24
25 }
26
27

- Kerucut



- Prisma Segita