LAPORAN PRAKTIKUM
MODUL 9
ABSTRAC CLASS
PRAKTIKUM PEMROGRAMAN BERORIENTASI OBJEK

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Praktikum PBO D

INFORMATIKA

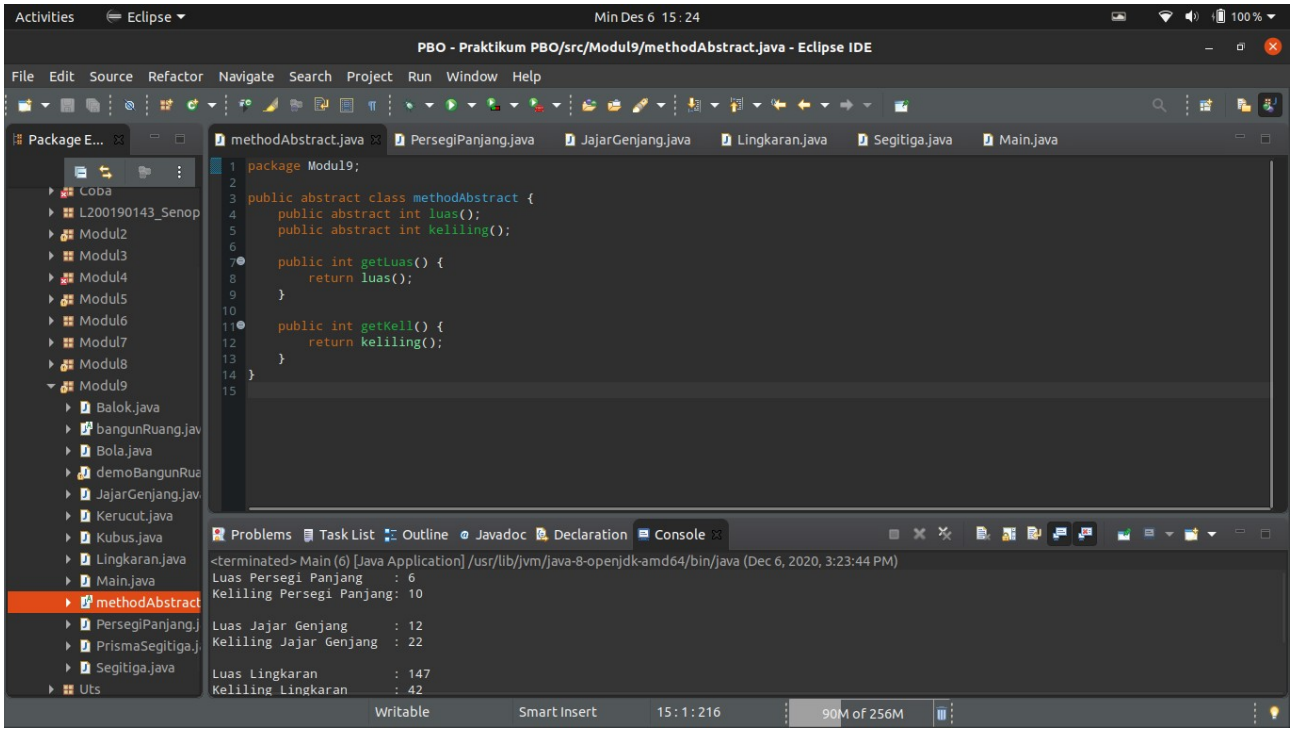
FAKULTAS KOMUNIKASI DAN INFORMATIKA

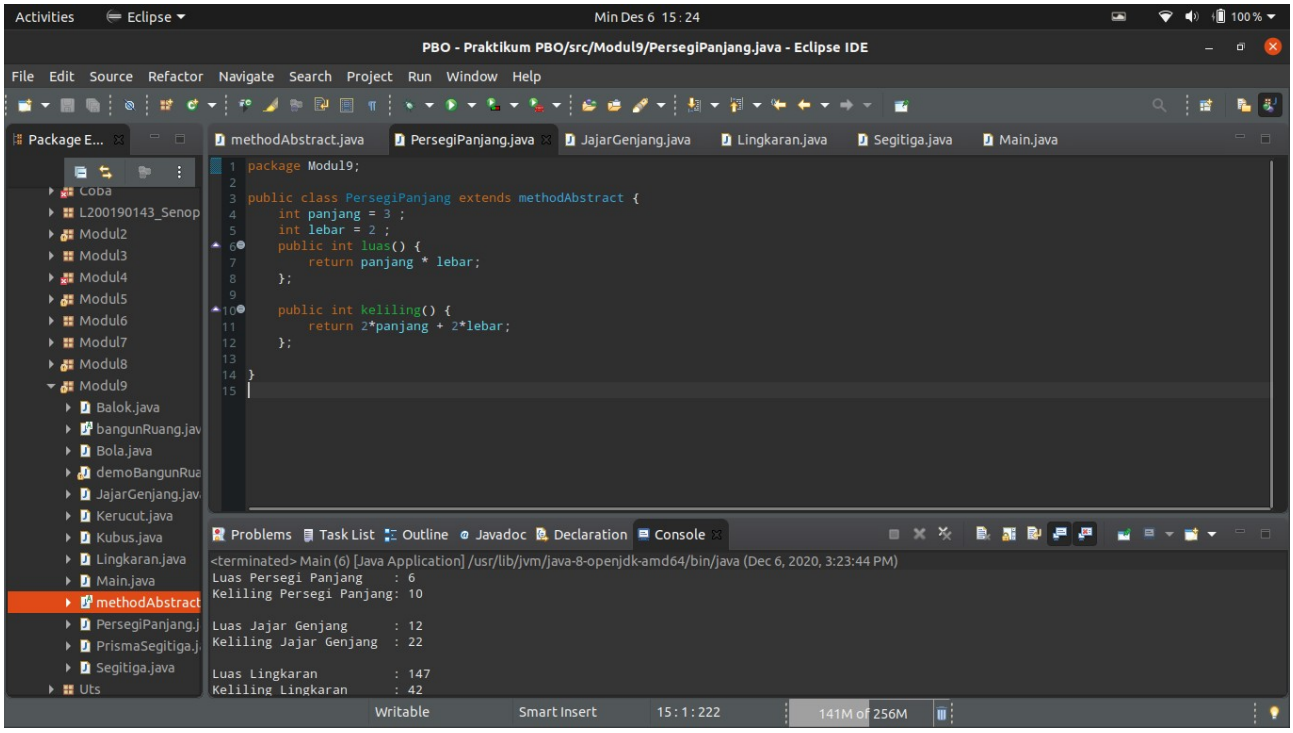
UNIVERSITAS MUHAMMADIYAH SURAKARTA

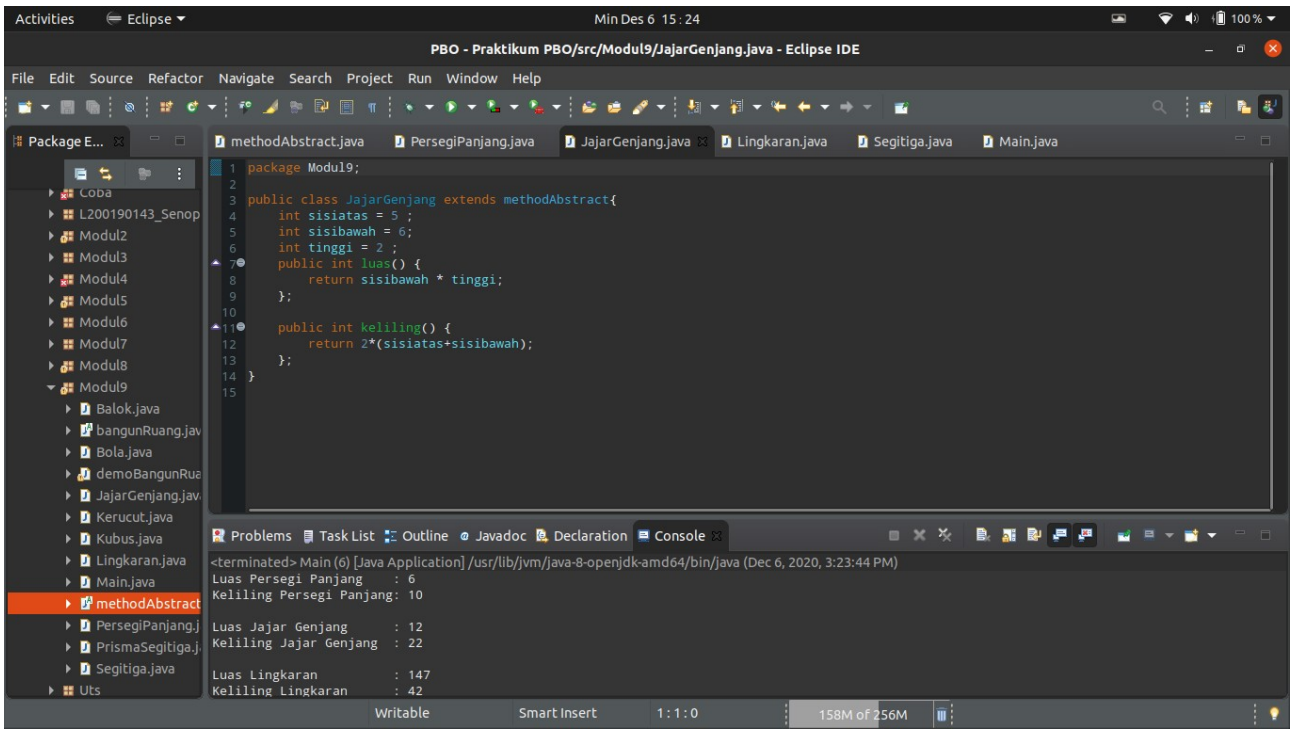
2020

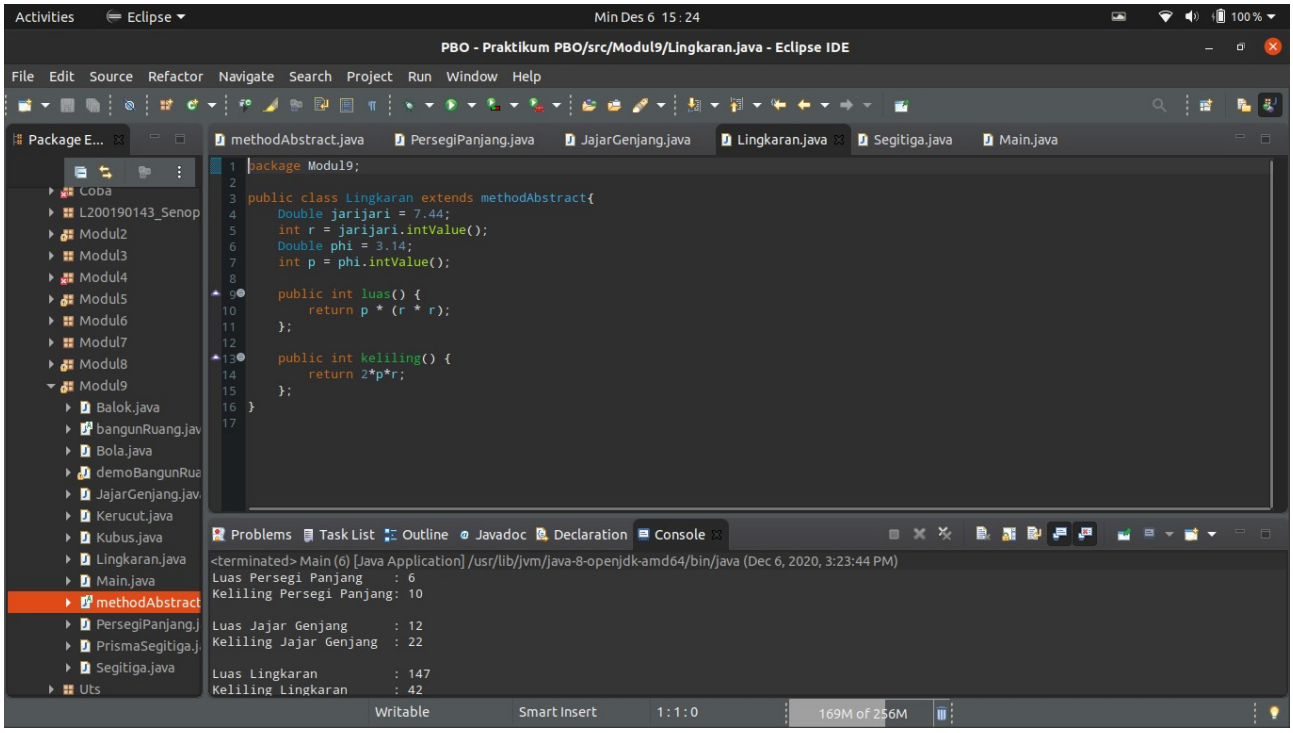
Latihan

Dengan menggunakan class MethodAbstrak pada Program 5 diatas, buatlah class PersegiPanjang, JajarGenjang,Lingkaran dan Segitiga! Selanjutnya implementasikanmethod luas() dan keliling() yang sesuai dengan perhitungan masing-masing class.






Activities
Eclipse
Min Des 6 15 : 24
100 %
PBO - Praktikum PBO/src/Modul9/JajarGenjang.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package E...
methodAbstract.java
PersegiPanjang.java
JajarGenjang.java
Lingkaran.java
Segitiga.java
Main.java
Coba
L200190143_Senop
Modul2
Modul3
Modul4
Modul5
Modul6
Modul7
Modul8
Modul9
Balok.java
bangunRuang.jav
Bola.java
demoBangunRua
JajarGenjang.jav
Kerucut.java
Kubus.java
Lingkaran.java
Main.java
methodAbstract
PersegiPanjang.j
PrismaSegitiga.j
Segitiga.java
Uts
1 package Modul9;
2
3 public class JajarGenjang extends methodAbstract{
4 int sisiatas = 5 ;
5 int sisibawah = 6;
6 int tinggi = 2 ;
7 public int luas() {
8 return sisibawah * tinggi;
9 };
10
11 public int keliling() {
12 return 2*(sisiatas+sisibawah);
13 };
14 }
15
Problems Task List Outline Javadoc Declaration Console
<terminated> Main (6) [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Dec 6, 2020, 3:23:44 PM)
Luas Persegi Panjang : 6
Keliling Persegi Panjang: 10
Luas Jajar Genjang : 12
Keliling Jajar Genjang : 22
Luas Lingkaran : 147
Keliling Lingkaran : 42
Writable
Smart Insert
1 : 1 : 0
158M of 256M


Activities
Eclipse
Min Des 6 15 : 24
100 %
PBO - Praktikum PBO/src/Modul9/Lingkaran.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package E...
methodAbstract.java
PersegiPanjang.java
JajarGenjang.java
Lingkaran.java
Segitiga.java
Main.java
Coba
L200190143_Senop
Modul2
Modul3
Modul4
Modul5
Modul6
Modul7
Modul8
Modul9
Balok.java
bangunRuang.jav
Bola.java
demoBangunRua
JajarGenjang.jav
Kerucut.java
Kubus.java
Lingkaran.java
Main.java
methodAbstract
PersegiPanjang.j
PrismaSegitiga.j
Segitiga.java
Uts
1 package Modul9;
2
3 public class Lingkaran extends methodAbstract{
4 Double jarijari = 7.44;
5 int r = jarijari.intValue();
6 Double phi = 3.14;
7 int p = phi.intValue();
8
9 public int luas() {
10 return p * (r * r);
11 };
12
13 public int keliling() {
14 return 2*p*r;
15 };
16 }
17
Problems Task List Outline Javadoc Declaration Console
<terminated> Main (6) [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Dec 6, 2020, 3:23:44 PM)
Luas Persegi Panjang : 6
Keliling Persegi Panjang: 10
Luas Jajar Genjang : 12
Keliling Jajar Genjang : 22
Luas Lingkaran : 147
Keliling Lingkaran : 42
Writable
Smart Insert
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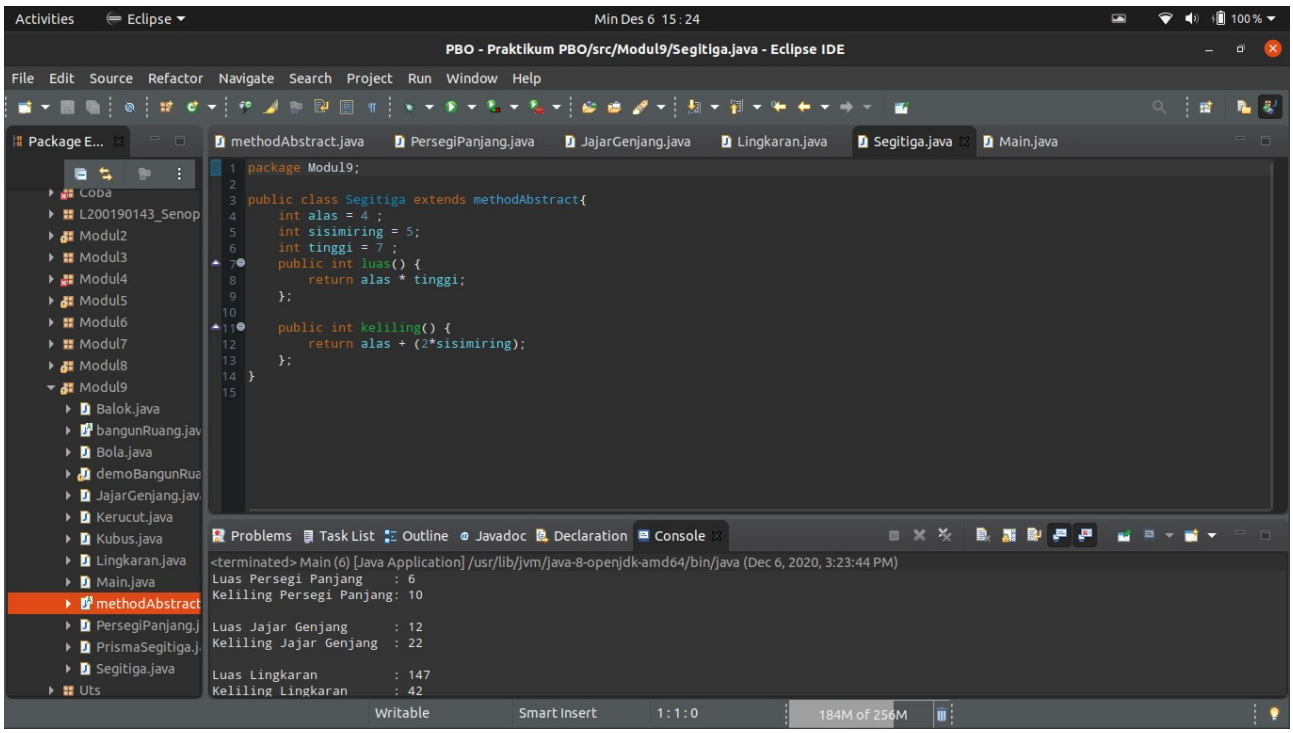
169M of 256M


Activities
Eclipse
Min Des 6 15 : 24
100 %
PBO - Praktikum PBO/src/Modul9/Segitiga.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package E...
methodAbstract.java
PersegiPanjang.java
JajarGenjang.java
Lingkaran.java
Segitiga.java
Main.java
1 package Modul9;
2
3 public class Segitiga extends methodAbstract{
4 int alas = 4 ;
5 int sisimiring = 5;
6 int tinggi = 7 ;
7 public int luas() {
8 return alas * tinggi;
9 };
10
11 public int keliling() {
12 return alas + (2*sisimiring);
13 };
14 }
15
Problems Task List Outline Javadoc Declaration Console
<terminated> Main (6) [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Dec 6, 2020, 3:23:44 PM)
Luas Persegi Panjang : 6
Keliling Persegi Panjang: 10
Luas Jajar Genjang : 12
Keliling Jajar Genjang : 22
Luas Lingkaran : 147
Keliling Lingkaran : 42
Writable
Smart Insert
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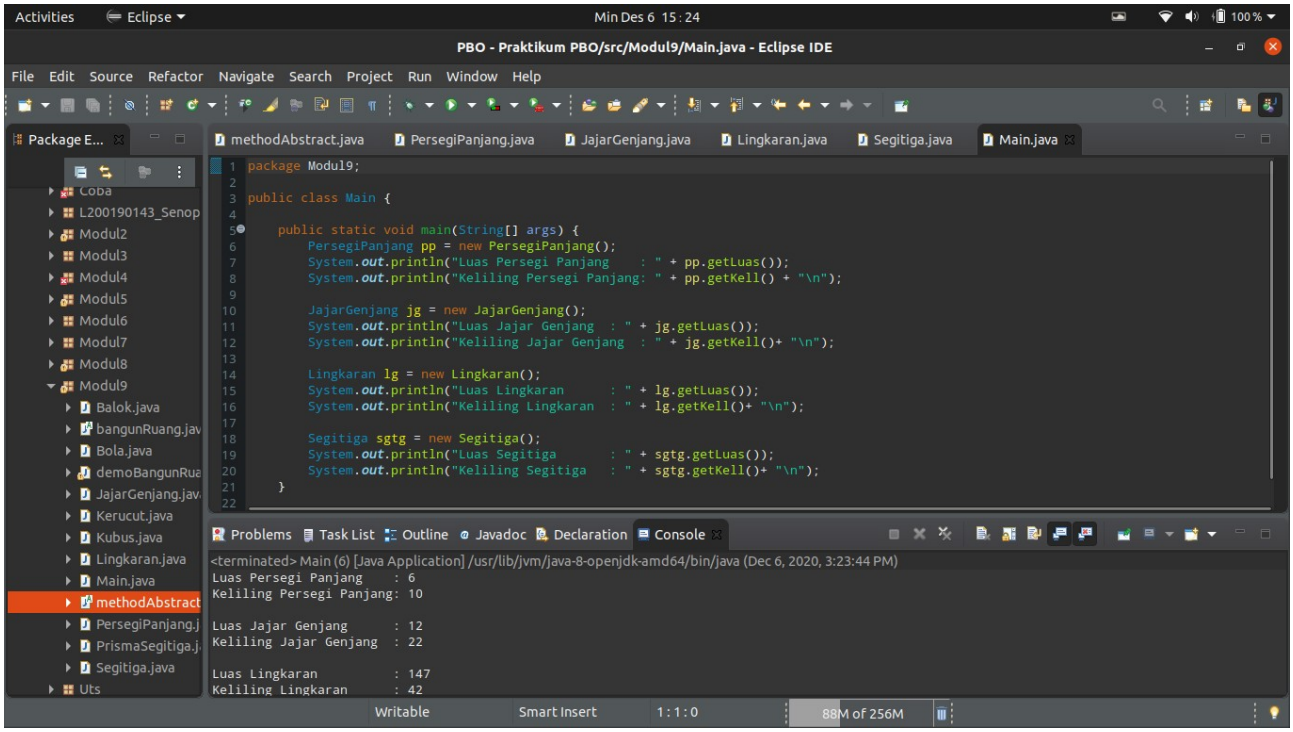
184M of 256M


Activities
Eclipse
Min Des 6 15 : 24
100 %
PBO - Praktikum PBO/src/Modul9/Main.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package E...
methodAbstract.java
PersegiPanjang.java
JajarGenjang.java
Lingkaran.java
Segitiga.java
Main.java
1 package Modul9;
2
3 public class Main {
4
5 public static void main(String[] args) {
6 PersegiPanjang pp = new PersegiPanjang();
7 System.out.println("Luas Persegi Panjang : " + pp.getLuas());
8 System.out.println("Keliling Persegi Panjang: " + pp.getKell() + "\n");
9
10 JajarGenjang jg = new JajarGenjang();
11 System.out.println("Luas Jajar Genjang : " + jg.getLuas());
12 System.out.println("Keliling Jajar Genjang : " + jg.getKell()+ "\n");
13
14 Lingkaran lg = new Lingkaran();
15 System.out.println("Luas Lingkaran : " + lg.getLuas());
16 System.out.println("Keliling Lingkaran : " + lg.getKell()+ "\n");
17
18 Segitiga sgtg = new Segitiga();
19 System.out.println("Luas Segitiga : " + sgtg.getLuas());
20 System.out.println("Keliling Segitiga : " + sgtg.getKell()+ "\n");
21 }
22
Problems Task List Outline Javadoc Declaration Console
<terminated> Main (6) [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Dec 6, 2020, 3:23:44 PM)
Luas Persegi Panjang : 6
Keliling Persegi Panjang: 10
Luas Jajar Genjang : 12
Keliling Jajar Genjang : 22
Luas Lingkaran : 147
Keliling Lingkaran : 42
Writable
Smart Insert
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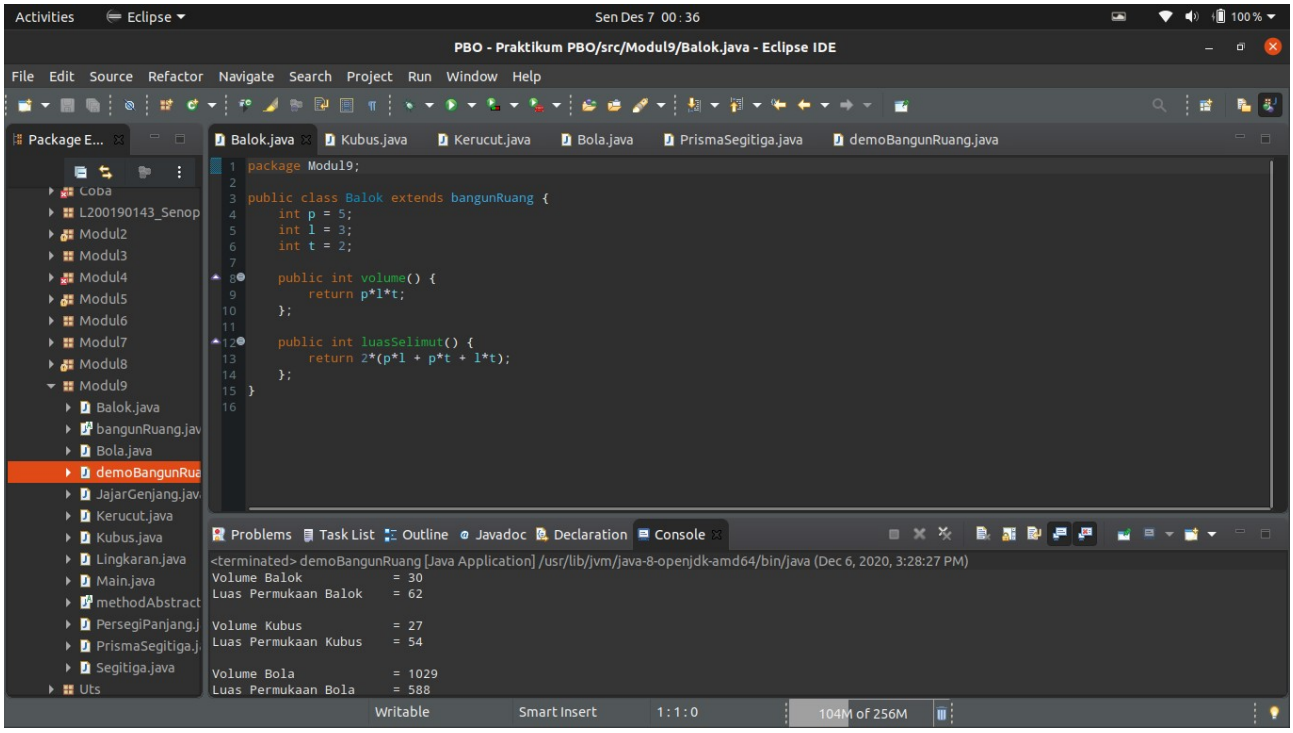
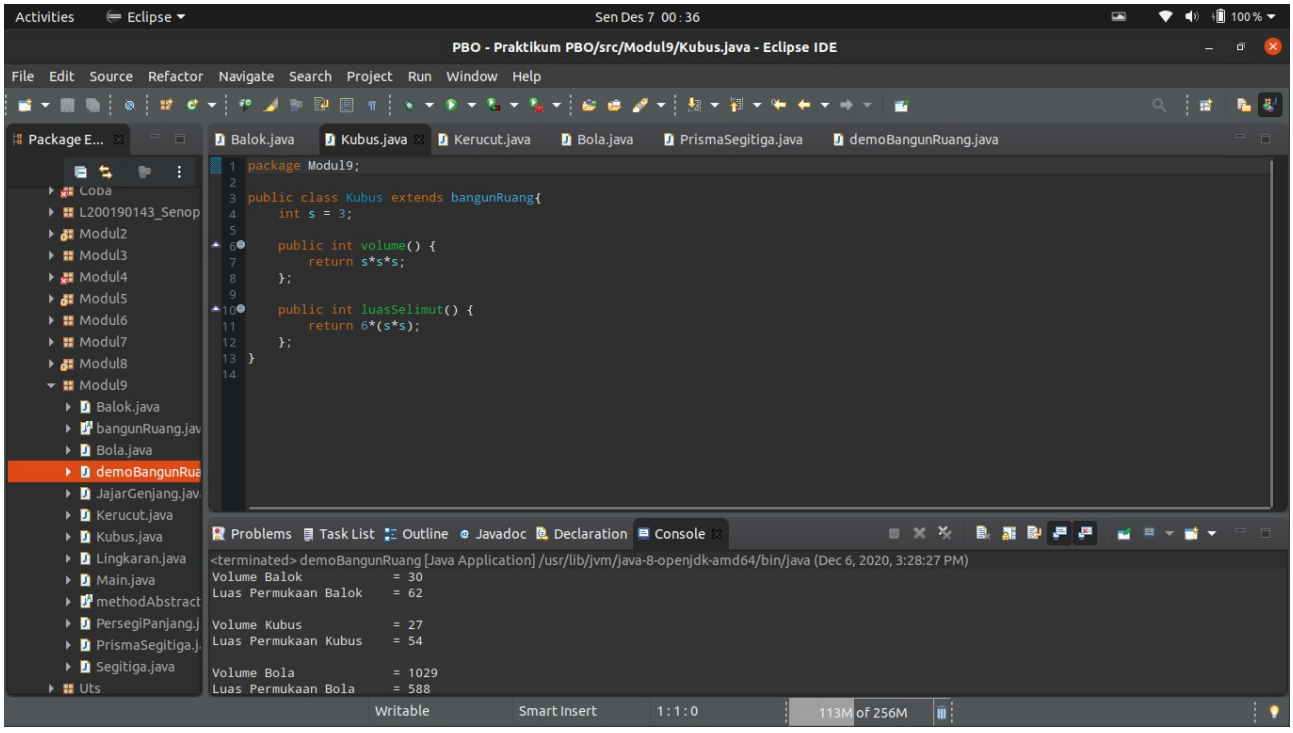
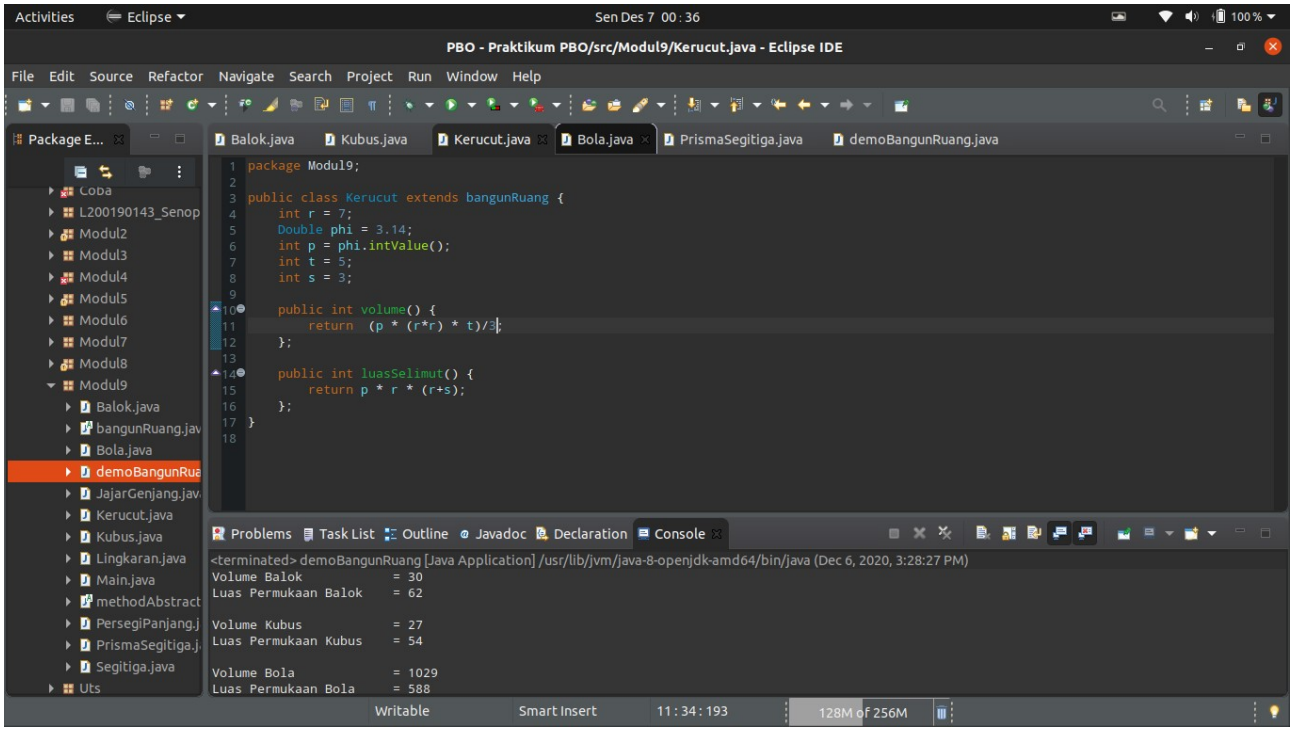
88M of 256M

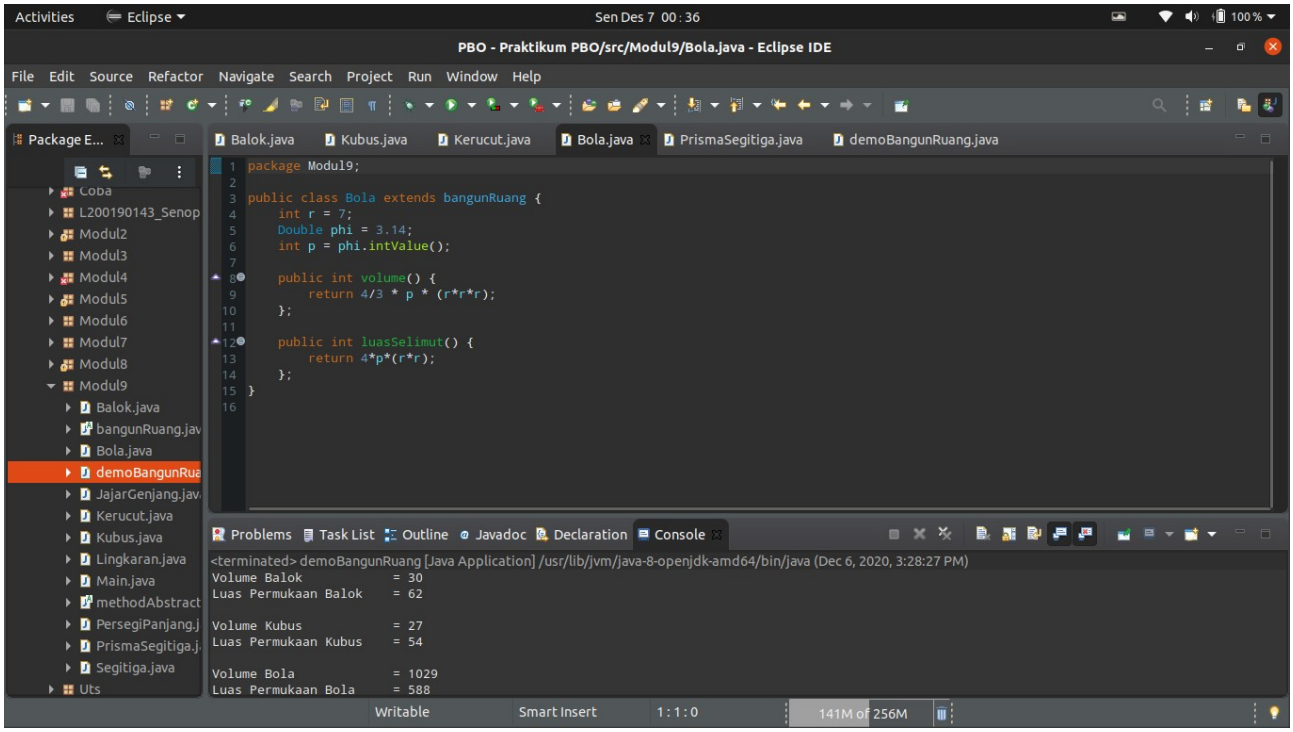
TUGAS

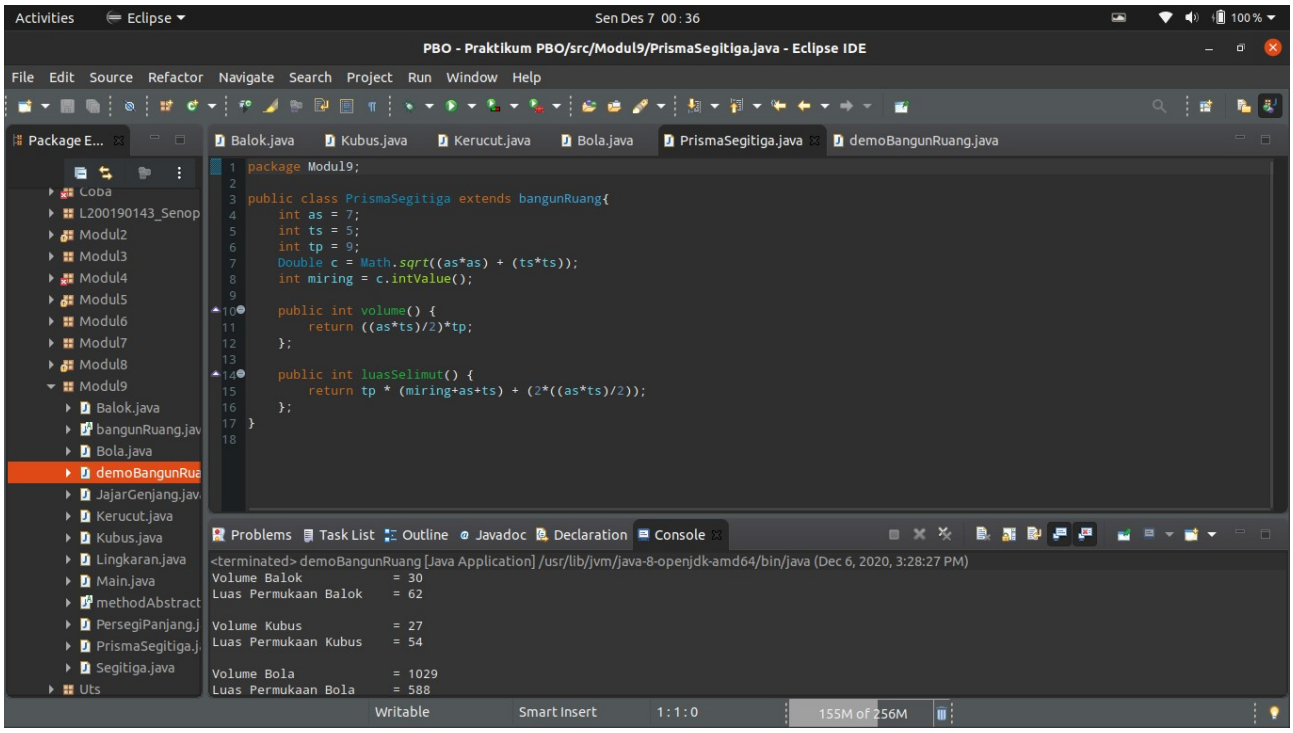
Buatlah class abstract untuk bangun ruang, dengan ketentuan memiliki method abstract untuk menghitung volume, dan luasSelimut/luasPermukaan. Selanjutnya buatlah class Balok, Kubus, Bola, Kerucut, dan PrismaSegitiga untuk mengimplementasikan method abstract tesebut!

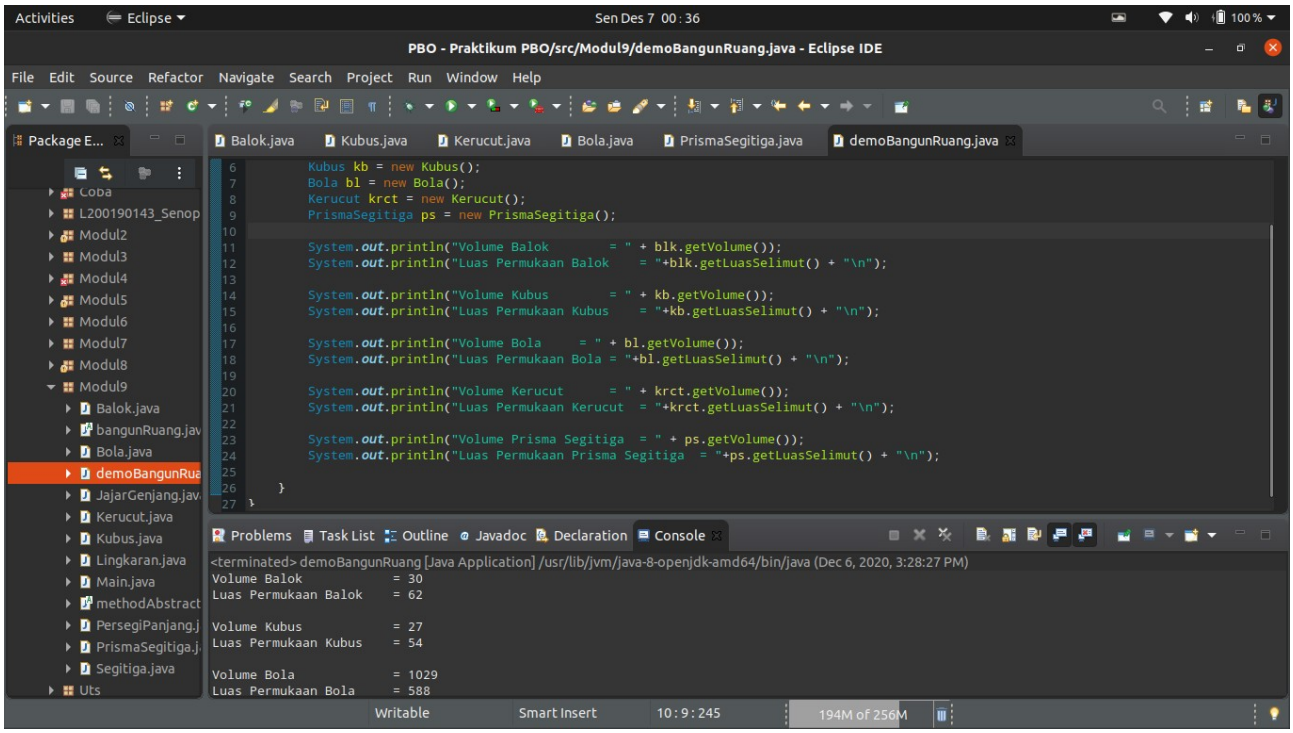





Activities
Eclipse
Sen Des 7 00 : 36
PBO - Praktikum PBO/src/Modul9/Kerucut.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package E...
Balok.java
Kubus.java
Kerucut.java
Bola.java
PrismaSegitiga.java
demoBangunRuang.java
package Modul9;
public class Kerucut extends bangunRuang {
int r = 7;
Double phi = 3.14;
int p = phi.intValue();
int t = 5;
int s = 3;
public int volume() {
return (p * (r*r) * t)/3;
};
public int luasSelimut() {
return p * r * (r+s);
};
}
Problems Task List Outline Javadoc Declaration Console
<terminated> demoBangunRuang [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Dec 6, 2020, 3:28:27 PM)
Volume Balok = 30
Luas Permukaan Balok = 62
Volume Kubus = 27
Luas Permukaan Kubus = 54
Volume Bola = 1029
Luas Permukaan Bola = 588
Writable
Smart Insert
11 : 34 : 193
128M of 256M


Activities
Eclipse
Sen Des 7 00 : 36
PBO - Praktikum PBO/src/Modul9/Bola.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package E...
Balok.java
Kubus.java
Kerucut.java
Bola.java
PrismaSegitiga.java
demoBangunRuang.java
package Modul9;
public class Bola extends bangunRuang {
int r = 7;
Double phi = 3.14;
int p = phi.intValue();
public int volume() {
return 4/3 * p * (r*r*r);
};
public int luasSelimut() {
return 4*p*(r*r);
};
}
Problems Task List Outline Javadoc Declaration Console
<terminated> demoBangunRuang [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Dec 6, 2020, 3:28:27 PM)
Volume Balok = 30
Luas Permukaan Balok = 62
Volume Kubus = 27
Luas Permukaan Kubus = 54
Volume Bola = 1029
Luas Permukaan Bola = 588
Writable
Smart Insert
1 : 1 : 0
141M of 256M


Activities
Eclipse
Sen Des 7 00 : 36
PBO - Praktikum PBO/src/Modul9/PrismaSegitiga.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package E...
Balok.java
Kubus.java
Kerucut.java
Bola.java
PrismaSegitiga.java
demoBangunRuang.java
package Modul9;
public class PrismaSegitiga extends bangunRuang{
int as = 7;
int ts = 5;
int tp = 9;
Double c = Math.sqrt((as*as) + (ts*ts));
int miring = c.intValue();
public int volume() {
return ((as*ts)/2)*tp;
};
public int luasSelimut() {
return tp * (miring+as+ts) + (2*((as*ts)/2));
};
}
Problems Task List Outline Javadoc Declaration Console
<terminated> demoBangunRuang [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Dec 6, 2020, 3:28:27 PM)
Volume Balok = 30
Luas Permukaan Balok = 62
Volume Kubus = 27
Luas Permukaan Kubus = 54
Volume Bola = 1029
Luas Permukaan Bola = 588
Writable
Smart Insert
1 : 1 : 0
155M of 256M


Activities
Eclipse
Sen Des 7 00 : 36
PBO - Praktikum PBO/src/Modul9/demoBangunRuang.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package E...
Balok.java
Kubus.java
Kerucut.java
Bola.java
PrismaSegitiga.java
demoBangunRuang.java
Kubus kb = new Kubus();
Bola bl = new Bola();
Kerucut krct = new Kerucut();
PrismaSegitiga ps = new PrismaSegitiga();
System.out.println("Volume Balok = " + blk.getVolume());
System.out.println("Luas Permukaan Balok = "+blk.getLuasSelimut() + "\n");
System.out.println("Volume Kubus = " + kb.getVolume());
System.out.println("Luas Permukaan Kubus = "+kb.getLuasSelimut() + "\n");
System.out.println("Volume Bola = " + bl.getVolume());
System.out.println("Luas Permukaan Bola = "+bl.getLuasSelimut() + "\n");
System.out.println("Volume Kerucut = " + krct.getVolume());
System.out.println("Luas Permukaan Kerucut = "+krct.getLuasSelimut() + "\n");
System.out.println("Volume Prisma Segitiga = " + ps.getVolume());
System.out.println("Luas Permukaan Prisma Segitiga = "+ps.getLuasSelimut() + "\n");
}
}
Problems Task List Outline Javadoc Declaration Console
<terminated> demoBangunRuang [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Dec 6, 2020, 3:28:27 PM)
Volume Balok = 30
Luas Permukaan Balok = 62
Volume Kubus = 27
Luas Permukaan Kubus = 54
Volume Bola = 1029
Luas Permukaan Bola = 588
Writable
Smart Insert
10 : 9 : 245
194M of 256M