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NIM : L200180049

Kelas : B

Modul: Modul 9 (Abstract Class)

1. Latihan:

```
🖾 methodAbstract.java 🕺 🚳 PersegiPanjang.java 🗯 🚳 JajarGenjang.java 🗯 🚳 Lingkaran.java 🗯
Source History | 🔯 👨 + 👼 + 💆 😓 😓 📮 🔒 😭 🔗 😓 | 💇 💇 | 🥚 🔲 |
       public abstract class methodAbstract {
 1
           public abstract int luas();
 1
           public abstract int keliling();
 4
 5
    口
           public int getLuas() {
 6
               return luas();
 7
    _
 8
           public int getKell() {
 9
               return keliling();
10
11
       }
```

```
🔯 methodAbstract.java 🔞 🙆 PersegiPanjang.java 🔞 🙆 JajarGenjang.java 🗯 🙆 Lingkaran.java 🚳
Source History | 🚱 👨 🔻 🔻 🗸 😓 😓 🏰 ڬ 🕒 🎯 🔲 | 👑 🚅
      public class PersegiPanjang extends methodAbstract {
 2
          int panjang = 8;
 o
         int lebar = 5;
          @Override
 5
 ② □
          public int luas() {
 7
             return panjang*lebar;
 8
 9
          @Override
10
 3 🖃
          public int keliling() {
12
              return 2*(panjang + lebar);
13
14
    }
15
```

```
🔯 methodAbstract.java 🔞 🚳 PersegiPanjang.java 🔞 🚳 JajarGenjang.java 🔞 🚳 Lingkaran.java 🖇
Source History | 👺 🐶 🔻 🔻 🗸 🗸 🖓 🖶 🖫 | 🚱 😓 🖆 🗐 | 🥚 🔲 | 🐠 🚅
     public class JajarGenjang extends methodAbstract {
 1
          int alas =4;
 2
 3
          int tinggi = 6;
 4
          int sisi_miring = 9;
 5
 6
          @Override
 1 - -
         public int luas() {
 8
             return alas*tinggi;
 9
10
          @Override
11
 ③ □
          public int keliling() {
13
             return (2*alas) + (2*sisi_miring);
14
15
16
```

```
🔯 methodAbstract.java 🔞 💰 PersegiPanjang.java 🗯 💰 JajarGenjang.java 💥 💰 Lingkaran.java 💥
Source History | 🚱 👨 🔻 🐬 🗸 🖓 🖶 🗐 | 🔗 😓 | 🛂 🚅 | 🥚 📋 | 🐠 🚅
      public class Lingkaran extends methodAbstract {
 0
       int r = 14;
 3
          @Override
 4
 ⓐ □
          public int luas() {
 6
          return ((22*r*r)/7);
 7
 8
 9
         @Override
 ⓐ 🖃
          public int keliling() {
 11
             return (2*22*r)/7;
12
 13
14
```

```
🔯 methodAbstract.java 🔞 🚳 PersegiPanjang.java 🔞 🚳 JajarGenjang.java 🔞 🚳 Lingkaran.java 🔞 🚳 Segitiga.java 🔞
Source History | 🚱 🐶 🔻 🔻 🗸 🖓 😓 📮 📫 | 🔐 😓 😓 | 🖆 살 | 🥚 🔲 | 👑 🚅
      public class Segitiga extends methodAbstract {
         int alas = 9;
 2
         int tinggi = 5;
 3
         int sisiMiring = 7;
 5
 6
         @Override
₩ 🖃
          public int luas() {
          return (alas*tinggi)/2;
 8
 9
10
          @Override
11
ⓐ □
          public int keliling() {
           return alas + tinggi + sisiMiring;
13
14
15
16
```

```
🖾 methodAbstract.java 🔞 🚳 PersegiPanjang.java 🔞 🚳 JajarGenjang.java 🔞 🚳 Lingkaran.java 🔞 🚳 Segitiga.java 🔞 🚳 MethodMain.java 🖠
  Source History | 🚱 💀 - 🔊 - | 🔾 🐶 🖶 🖫 | 🍄 😓 🕒 🖆 🗐 | 🍏 🔲 | 🐠 🚅
                     public class MethodMain {
                             public static void main(String[] args) {
                                               PersegiPanjang pp = new PersegiPanjang();
                      System.out.println("Latihan: "+"\n"+"\n");

  Image: Control of the 
                                              System.out.println("Rumus Persegi Panjang: ");
                                             System.out.println(" 1.Keliling = " + pp.getKell());
System.out.println(" 2.Luas = " + pp.getLuas()+"\n");
     6
                                             System.out.println("
     8
                                              JajarGenjang jg = new JajarGenjang();
   10
                                               System.out.println("Rumus Jajar Genjang : ");
                                               System.out.println(" 1.Keliling = " + jg.getKell());
System.out.println(" 2.Luas = " + jg.getLuas()+"\n");
   11
   12
   13
   14
                                               Lingkaran L = new Lingkaran();
                                               System.out.println("Rumus Lingkaran : ");
                                                System.out.println(" 1.Keliling = " + L.getKell());
                                               System.out.println("
                                                                                                                         2.Luas = " + L.getLuas()+"\n");
   18
                                               Segitiga S = new Segitiga();
                                                System.out.println("Rumus Segitiga : ");
   20
                                               System.out.println(" 1.Keliling = " + S.getKell());
System.out.println(" 2.Luas = " + S.getLuas()+"\n");
  21
  22
  23
  24
  25
```

2. Tugas:

```
🖾 AbstrakClass.java 🔞 🙆 BangunRuang.java 🕺 🙆 Balok.java 🕸 🙆 Kubus.java 🕸
      History 🔯 💀 🔻 🔻 💆 🔁 🖺 🕌 😭 🔁 🖭
Source
 1
       abstract class BangunRuang {
 1
          public abstract int volume();
 1
          public abstract int luasPermukaan();
  4
 5
   戸
          public int getVolume(){
 6
               return volume();
 7
 8
 9
          public int getLuasPermukaan() {
    口
 10
              return luasPermukaan();
 11
 12
 13
```

```
🖾 AbstrakClass.java 🕺 🔯 BangunRuang.java 🖇 🙆 Balok.java 💥 🚳 Kubus.java 🕸 🚳 Bola.java 🕸
Source History | 🚱 👺 🔻 🐺 🔻 🗸 👺 📇 📫 🔓 😤 😓 | 🔄 💇 | 🥚 🔲 | 🐠 🚅
      public class Balok extends BangunRuang {
 2
         int panjang = 7;
          int lebar = 5;
 3
 o
         int tinggi = 10;
 5
 6
          @Override
 ② □
          public int volume(){
 8
              return panjang*lebar*tinggi;
 9
10
          @Override
11
 ② □
          public int luasPermukaan(){
13
          return 2*((panjang*lebar)+(panjang*tinggi)+(lebar*tinggi));
14
15
     }
16
```

```
🔯 AbstrakClass.java 🔞 🐼 BangunRuang.java 🗯 🚳 Balok.java 🗯 🚳 Kubus.java 🔞
Source History 🔐 🔯 🔻 🗸 🗸 😓 🛴 🔗 😓 😭 🖆 📦 🕒
      public class Kubus extends BangunRuang {
 1
 <del>Q</del>
          int sisi = 9;
 3
 4
           @Override
 1
   public int volume() {
 6
              return sisi*sisi*sisi;
 7
 8
 9
          @Override
 (1)
           public int luasPermukaan() {
             return 6*(sisi*sisi);
11
12
13
     }
14
```

```
🐼 AbstrakClass.java 🔞 🙆 BangunRuang.java 🗯 🚳 Balok.java 🗯 🚳 Kubus.java 🗯 🚳 Bola.java 🚳
Source History 🕼 🐶 🤛 🔻 🖓 😓 🕌 🖟 😓 🖭 💇 🥚 🔲 🏙 🚅
      public class Bola extends BangunRuang {
 1
 o
       int r = 7;
 3
 4
          @Override
 1
   戸
          public int volume(){
 6
            return ((4*22*r*r*r)/7)/3;
 7
 8
          @Override
 9
 (3)
   public int luasPermukaan(){
             return (4*22*r*r)/7;
11
12
13
      }
```

```
🗗 AbstrakClass.java 🔞 🗗 BangunRuang.java 📽 🚳 Balok.java 📽 🚳 Kubus.java 📽 🚳 Bola.java 📽 🚳 Kerucut.java 📽
Source History | 🚱 👨 🔻 🤻 📢 👯 😂 📮 🏰 👙 😫 🖆 | 🧼 📵 🔛 | 🏙 🚅
      public class Kerucut extends BangunRuang {
 1
         int r = 7;
 2
 3
         int t = 5;
         int s = 8;
 5
         @Override
 6
 ©r戸
       public int volume(){
8 2
             return ((22*r*r*t)/7)/3;
10
11
         @Override
④ 📮
         public int luasPermukaan() {
13
          return ((22*r)/7)*(r+s);
14
15
16
```

```
🖸 AbstrakClass.java 🔞 🗷 BangunRuang.java 🕸 💰 Balok.java 🕸 💰 Kubus.java 🕸 💰 Bola.java 🕸 🛣 PrismaSegitiga.java 🕸
Source History | 🕝 🖫 - 🔊 - | 🧖 💤 👺 🖶 📫 | 🔗 😓 | 🖆 🖆 | 🧼 🗎 🚅
      public class PrismaSegitiga extends BangunRuang {
         int luasAlas = 64;
 2
          int kelilingAlas = 32:
 3

  Page

       int tinggi = 10;
 5
          @Override
 (I)
         public int volume(){
 8
            return luasAlas*tinggi;
 9
10
11
 ③ □
         public int luasPermukaan(){
13
            return (2*luasAlas)+(kelilingAlas*tinggi);
14
15
```

```
va 🚳 Balok.java 🔞 💰 Kubus.java 🔞 💰 Bola.java 🗯 🚳 Kerucut.java 🗯 🚳 PrismaSegitiga.java 🗯 🍇 BangunRuangMain.java 💥
rce History | 🔀 👨 - 👼 - | 🔩 🔁 🐶 🖶 📫 | 🔗 😓 🔁 🖆 🔯 | 🥚 🔲 | 🐠 🚅
   public class BangunRuangMain {
       public static void main (String[] args){
           Balok bal = new Balok();
            System.out.println("Tugas :"+"\n"+"\n");
            System.out.println("Rumus Balok : ");
            System.out.println(" 1. Keliling = "+bal.getVolume());
           System.out.println(" 2. Luas = "+bal.getLuasPermukaan()+"\n");
            Kubus kub = new Kubus();
            System.out.println("Rumus Kubus : ");
            System.out.println(" 1. Keliling = "+kub.getVolume());
            System.out.println("
                                  2. Luas = "+kub.getLuasPermukaan()+"\n");
            Bola bol = new Bola();
            System.out.println("Rumus Bola : ");
            System.out.println(" 1. Keliling = "+bol.getVolume());
                                  2. Luas = "+bol.getLuasPermukaan()+"\n");
            System.out.println("
            Kerucut ker = new Kerucut();
            System.out.println("Rumus Kerucut : ");
            System.out.println(" 1. Keliling = "+ker.getVolume());
System.out.println(" 2. Luas = "+ker.getLuasPermukaan()+"\n");
            PrismaSegitiga prseg = new PrismaSegitiga();
            System.out.println("Rumus Balok : ");
            System.out.println(" 1. Keliling = "+prseg.getVolume());
                                     2. Luas = "+prseg.getLuasPermukaan());
            System.out.println("
   3
```